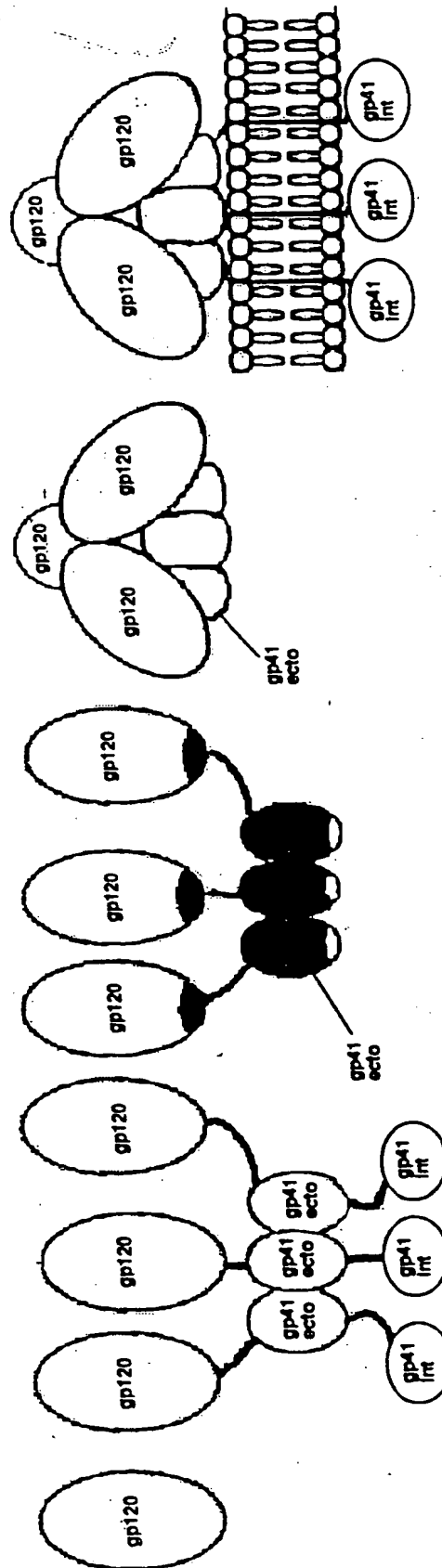
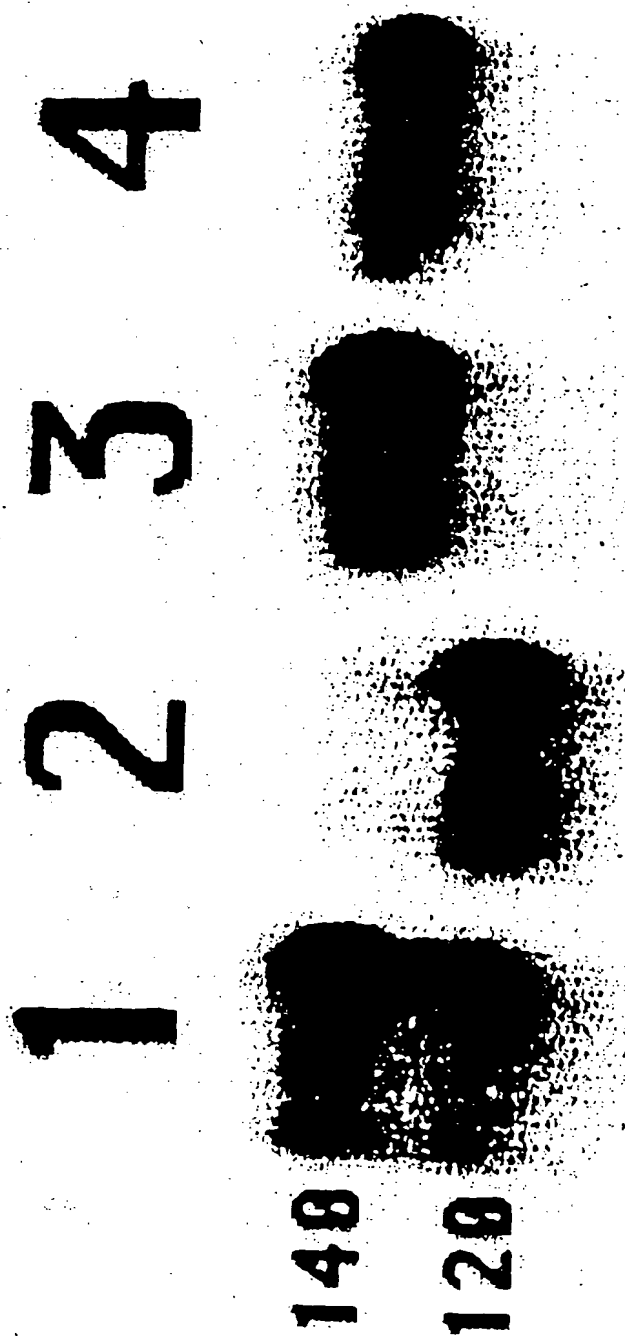


1/42



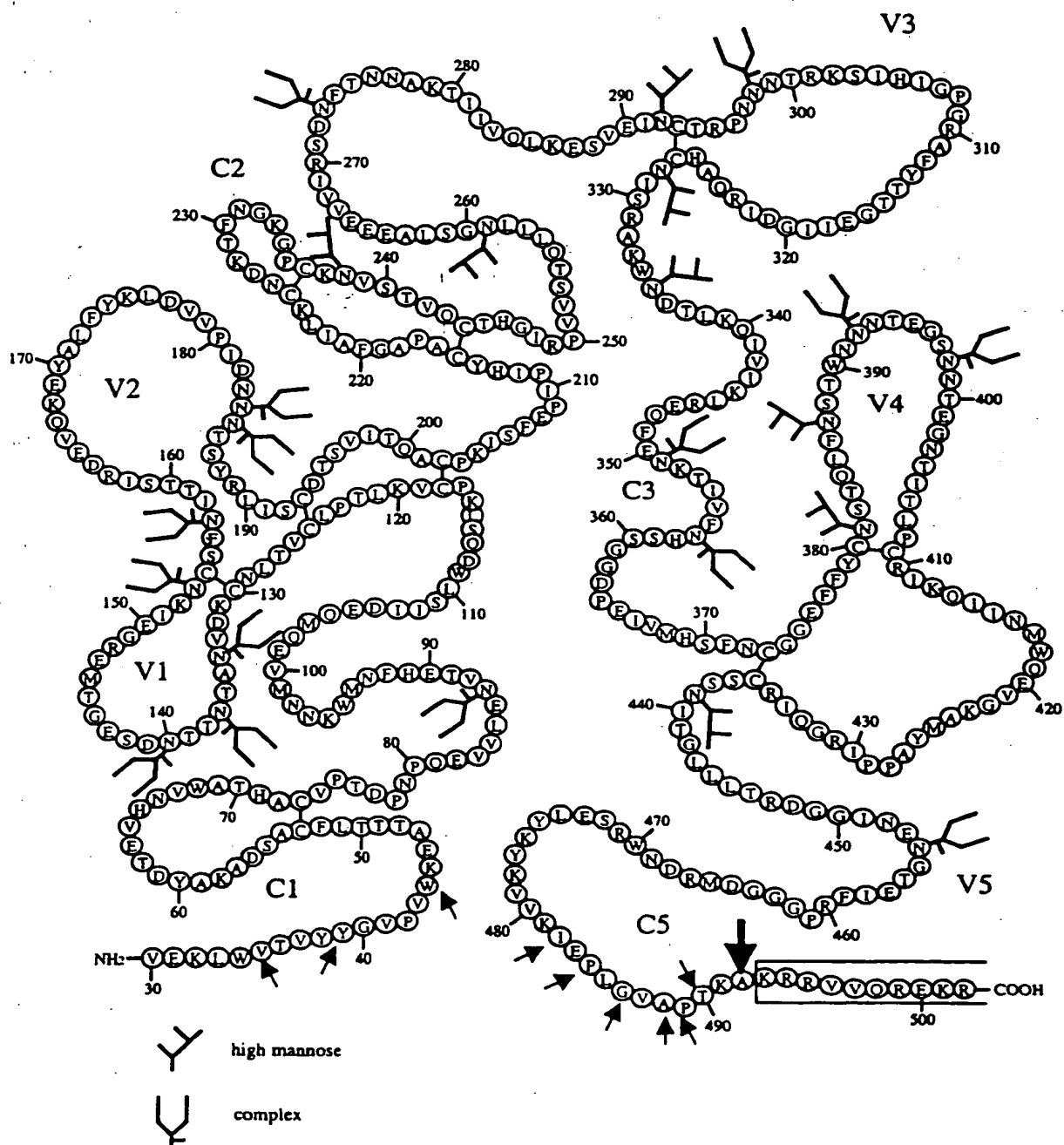
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FIGURE 2



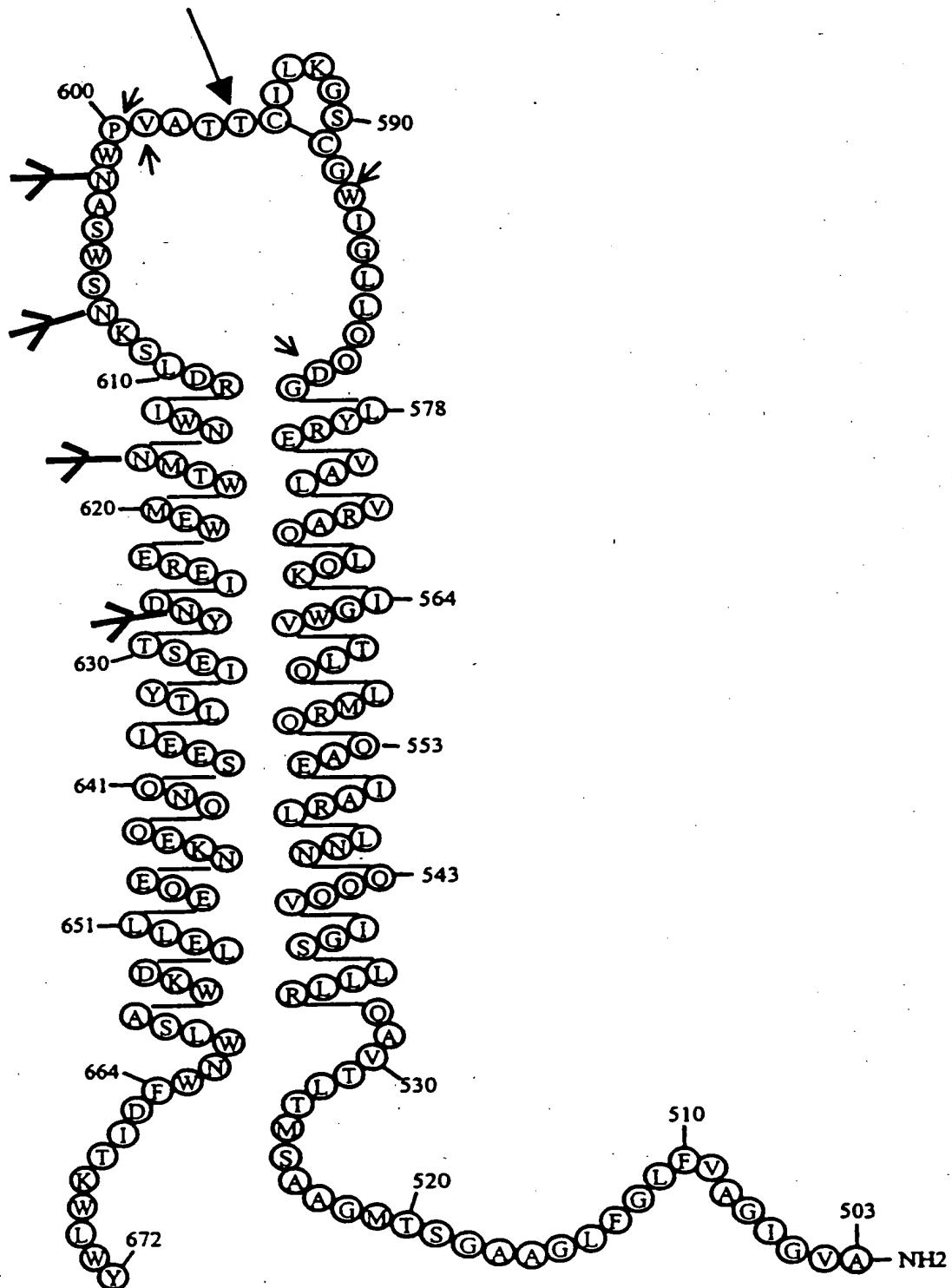
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FIGURE 3A



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FIGURE 3B



1	2G12	V35C D580C	W44C T596C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	w1
2	F91	2G12	F91	2G12	F91	2G12	F91	2G12	2G12
3	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12
4	F91	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	F91
5	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12
6	F91	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	F91
7	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12
8	F91	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	F91
9	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12
10	F91	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	F91
11	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12
12	F91	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	F91
13	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12
14	F91	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	F91
15	2G12	W44C T596C	W44C P600C	W44C P600C	V35C W587C	A488C W601C	T490C T596C	A492C T596C	2G12

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FIGURE 5

gp41

	D580C	W587C	T596C	V599C	P600C	W601C
V35C	0.45	0.40	0.35	0.30	0.40	0.30
Y39C	0.35	0.30	0.60	0.45	0.45	N.D.
W44C	0.45	0.45	0.65	0.50	0.65	0.45

gp120

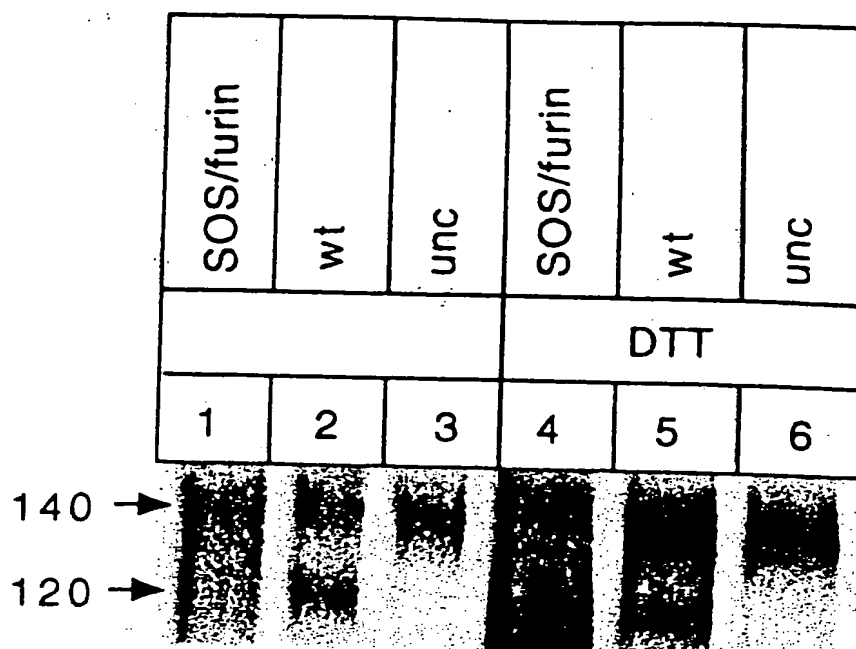
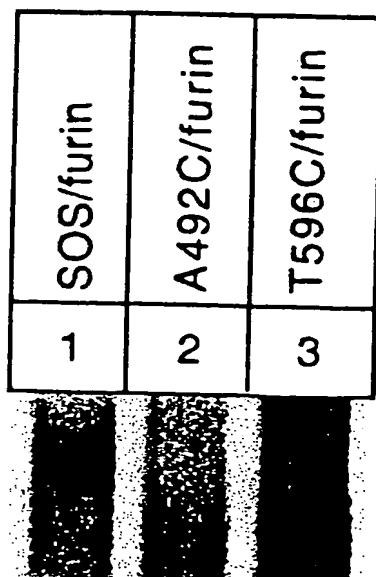
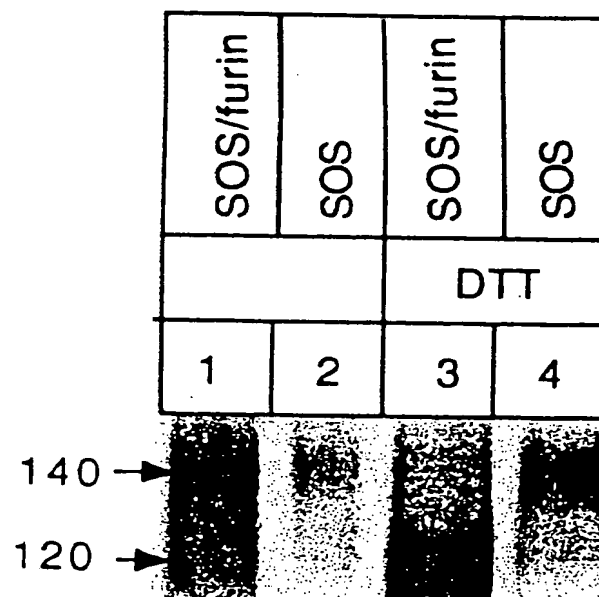
C1

	D580C	W587C	T596C	V599C	P600C	W601C
P484C	0.35	0.30	0.45	0	0	0
G486C	0	0	0.25	0.20	0.30	0
A488C	0	0	0.05	0	0	0
P489C	0	0.10	0.30	0.15	0.05	0
T490C	0	0.15	0.55	0.25	0.25	0.10
A492C	0.05	0	0.75	0.50	0.10	0.25

gp120

C5

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FIGURE 6A**FIGURE 6B****FIGURE 6C**

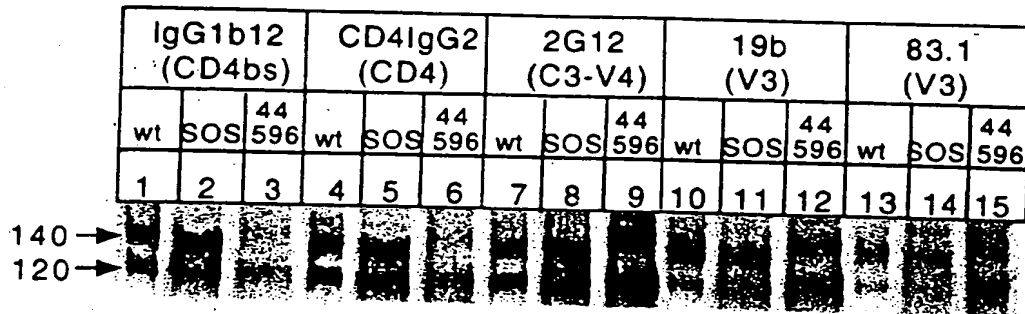
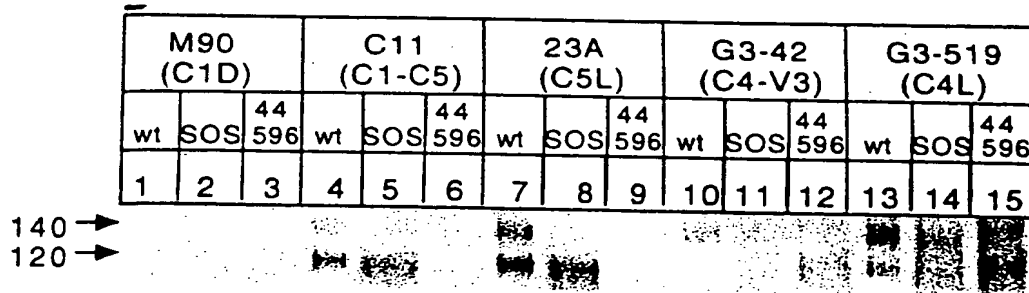
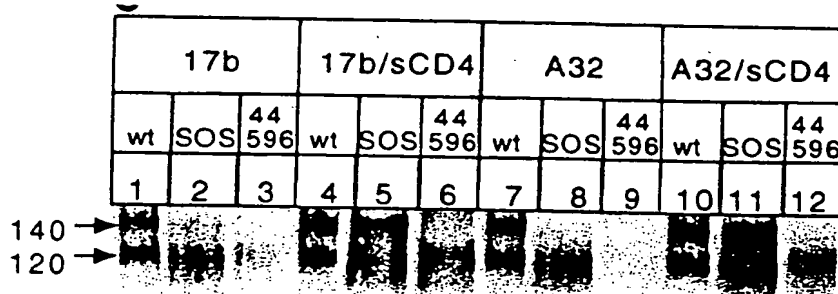
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FIGURE 7

	1	490, 596		K491A	K493A	K491A, K493A	12	44, 600; 491, 596	
	2	491, 596					11	492, 596 (SOS)	
	3	492, 596 (SOS)					10	492, 596 (SOS)	
	4	493, 596					9	492, 596 (SOS)	
	5	494, 596					8	498, 596	
	6	495, 596					7	496, 596	
	7	496, 596					6	492, 596 (SOS)	
	8	498, 596					5	494, 596	
	9	495, 596					4	493, 596	
	10	492, 596 (SOS)					3	492, 596 (SOS)	
	11	492, 596 (SOS)					2	491, 596	
	12	492, 596 (SOS)					1	490, 596	
	13	44, 600; 492, 596					14	44, 600; 493, 596	
	14	44, 600; 493, 596							

140 →
120 →

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FIGURE 8A**FIGURE 8B****FIGURE 8C**

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FIGURE 8D

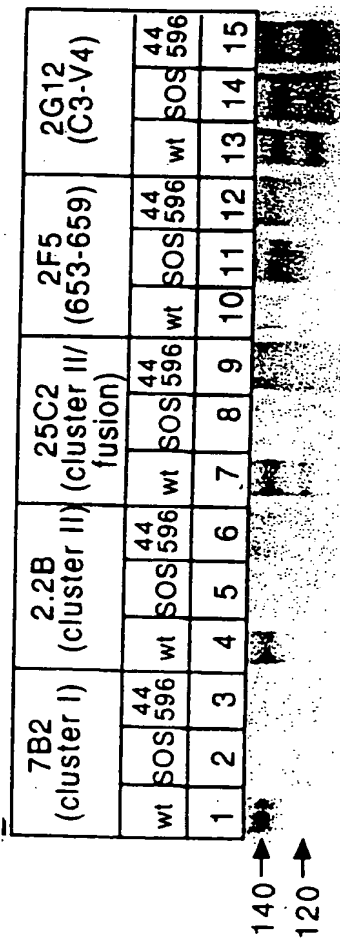
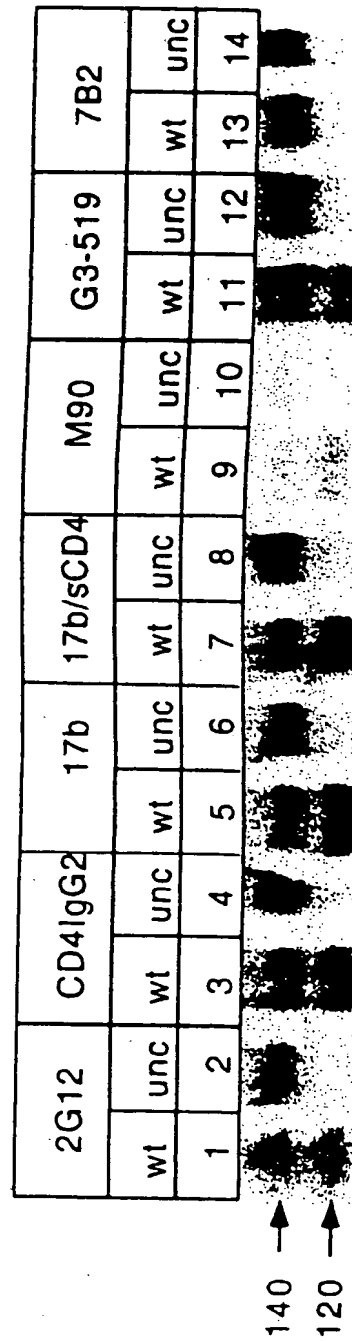
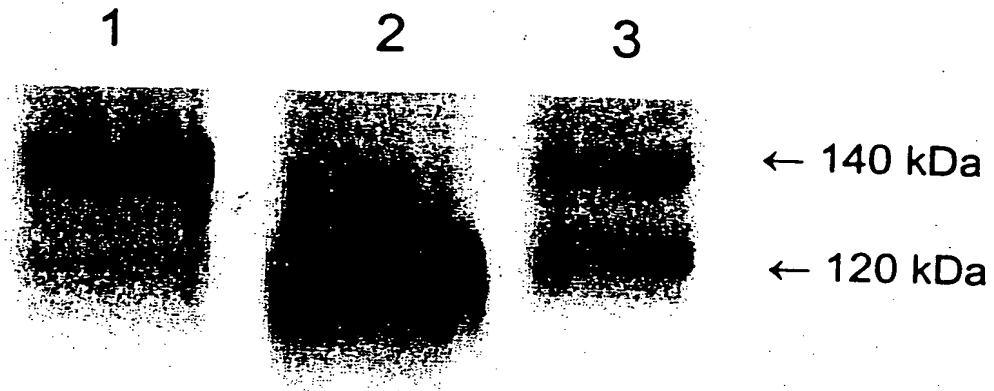
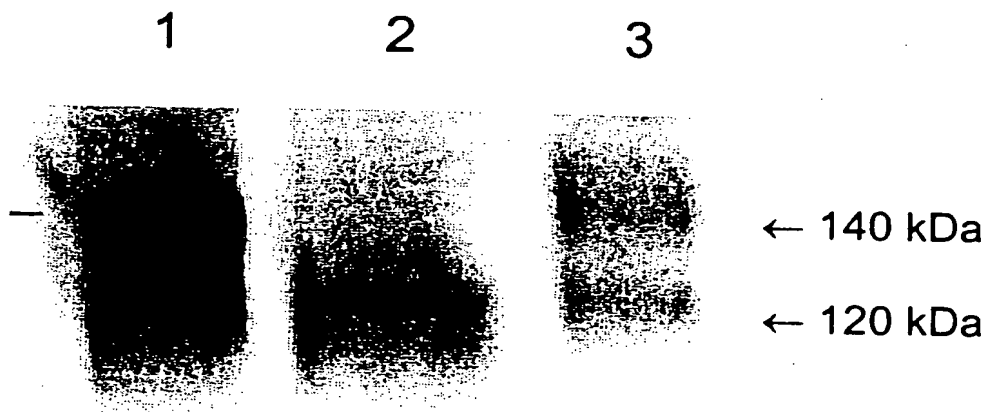


FIGURE 8E

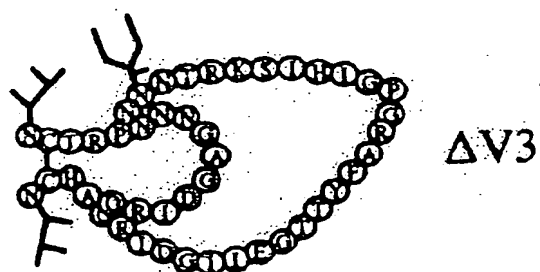
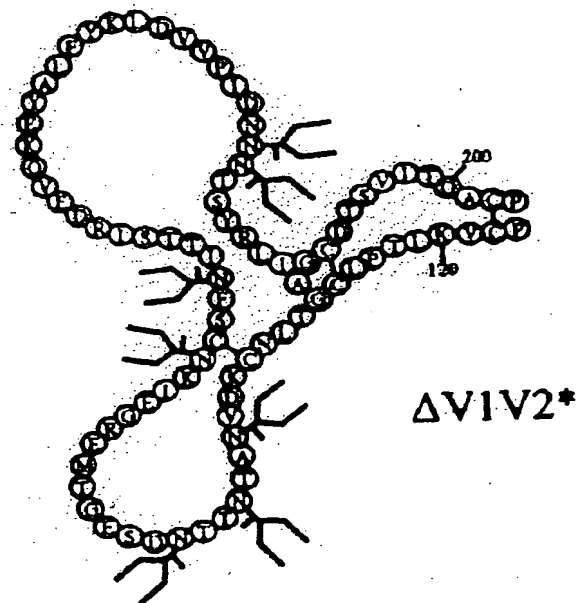
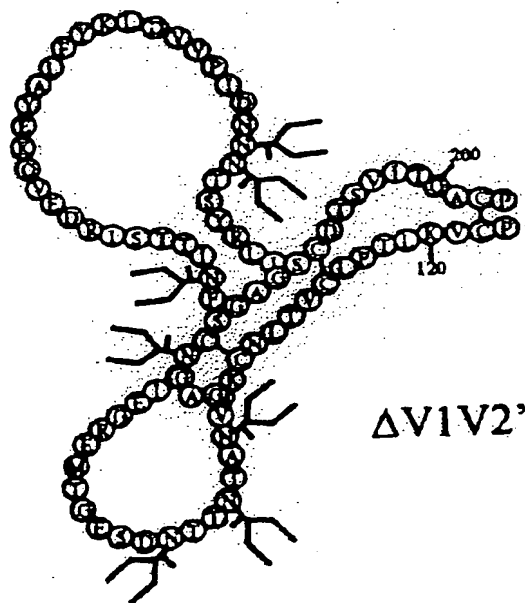
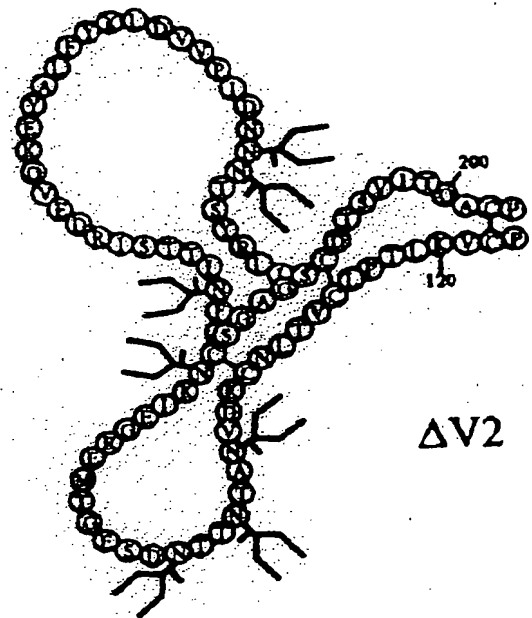
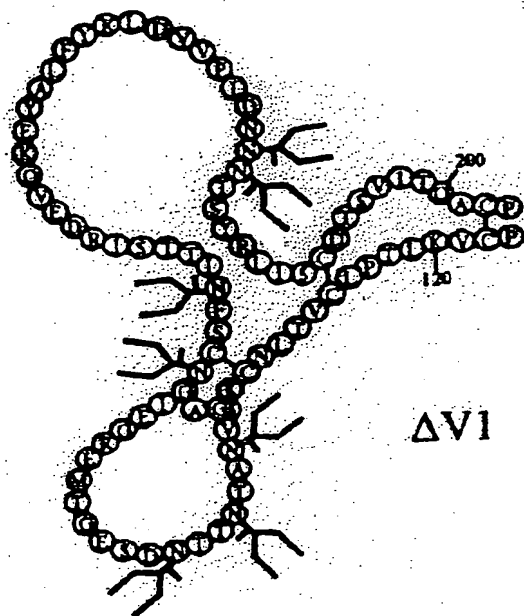


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FIGURE 9A**FIGURE 9B**

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FIGURE 10



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FIGURE 11A

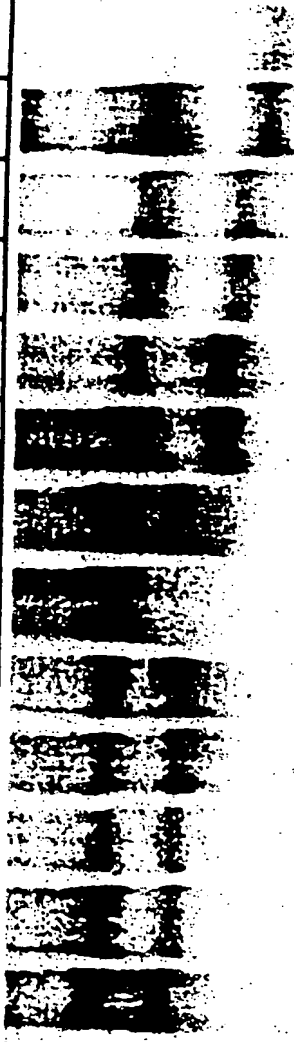
wt ΔV1V2*V3		CC ΔV1V2*V3		wt ΔV1V2*V3 N357Q N398Q		CC ΔV1V2*V3 N357Q N398Q		wt		envelope protein
2G12	F91	2G12	F91	2G12	F91	2G12	F91	F91	F91	antibody
1	2	3	4	5	6	7	8	9	10	lane



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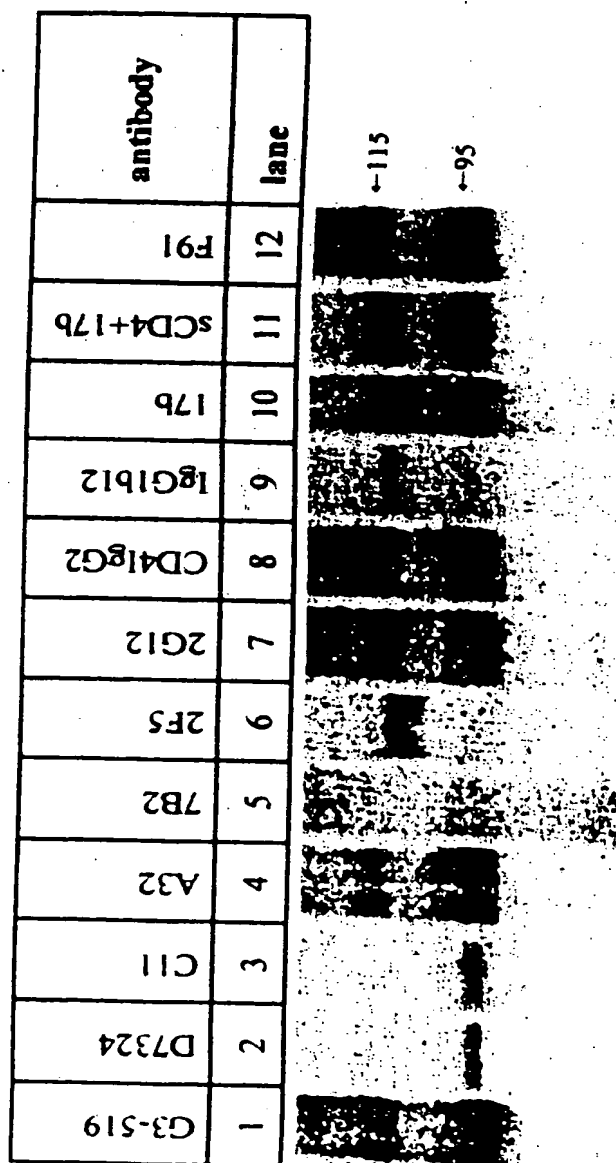
FIGURE 11B

wt	$\Delta V1$		$\Delta V2$		$\Delta V3$		$\Delta V1V2'$		$\Delta V1V2^\bullet$		$\Delta V1V2^\bullet V3$		protein
		CC		CC		CC		CC		CC		CC	cysteines
1	2	3	4	5	6	7	8	9	10	11	12	13	lane



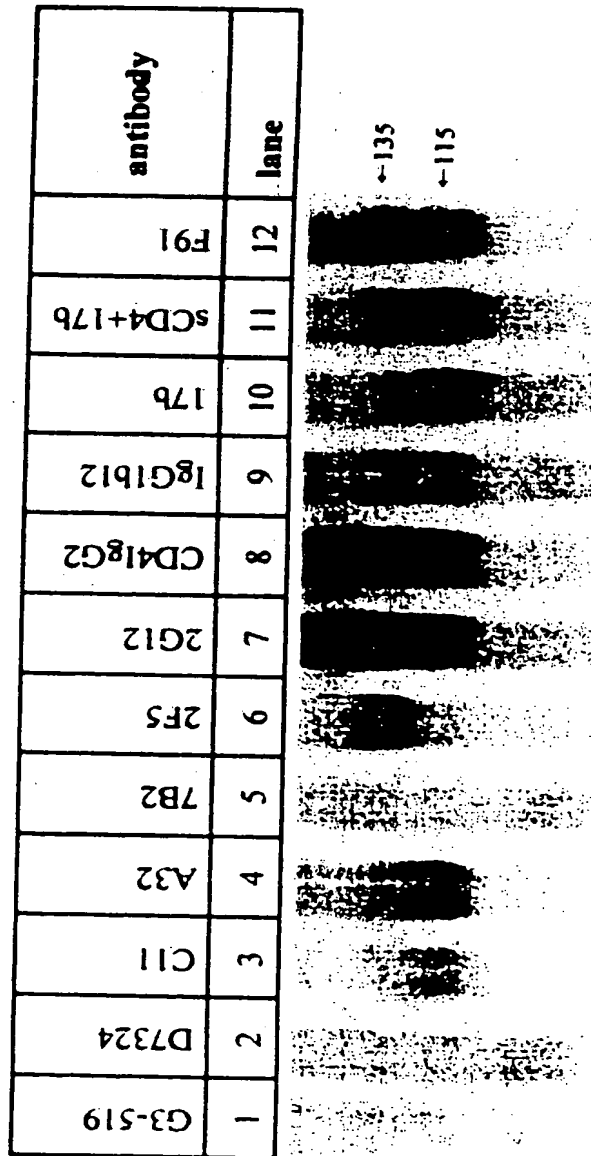
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FIGURE 12A



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FIGURE 12B



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FIGURE 13AHIV-1_{JR-FL} SOS gp140

(a)

1 GTAGAAAAGTTGTGGGTCACAGTCTATTATGGGGTACCTGTGTGGAAAGA
51 AGCAACCACCACTCTATTTTGTGCATCAGATGCTAAAGCATATGATACAG
101 AGGTACATAATGTTTGGGCCACACATGCCTGTGTACCCACAGACCCCAAC
151 CCACAAGAAGTAGTATTGGAAAATGTAACAGAACATTTTAAACATGTGGAA
201 AAATAACATGGTAGAACAGATGCAGGAGGATATAATCAGTTTATGGGATC
251 AAAGCCTAAAGCCATGTGTAAAATTAACCCCACTCTGTGTTACTTTAAAT
301 TGCAAGGATGTGAATGCTACTAATAACCACTAATGATAGCGAGGGAACGAT
351 GGAGAGAGGAGAAATAAAAACTGCTCTTTCAATATCACCACAAGCATAA
401 GAGATGAGGTGCAGAAAGAATATGCTCTTTTTTATAAACTTGATGTAGTA
451 CCAATAGATAATAATAATACCAGCTATAGGTTGATAAGTTGTGACACCTC
501 AGTCATTACACAGGCCTGTCCAAAGATATCCTTTGAGCCAATTCCCATAC
551 ATTATTGTGCCCCGGCTGGTTTTTGCGATTCTAAAGTGTAATGATAAGACG
601 TTCAATGGAAAAGGACCATGTAAAAATGTCAGCACAGTACAATGTACACA
651 TGGAATTAGGCCAGTAGTATCAACTCAACTGCTGCTAAATGGCAGTCTAG
701 CAGAAGAAGAGGTAGTAATTAGATCTGACAATTTACGAACAATGCTAAA
751 ACCATAATAGTACAGCTGAAAGAATCTGTAGAAATTAATTGTACAAGACC
801 CAACAACAATACAAGAAAAAGTATACATATAGGACCAGGGAGAGCATTTT
851 ATACTACAGGAGAAATAATAGGAGATATAAGACAAGCACATTGTAACATT
901 AGTAGAGCAAAATGGAATGACACTTTAAAACAGATAGTTATAAAATTAAG
951 AGAACAATTTGAGAATAAAACAATAGTCTTTAATCACTCCTCAGGAGGGG
1001 ACCCAGAAATTGTAATGCACAGTTTTAATTGTGAAGGAGAATTTTTCTAC
1051 TGTAATTCAACACAACCTGTTTAATAGTACTTGGAATAATAATACTGAAGG
1101 GTCAAATAACACTGAAGGAAATACTATCACACTCCCATGCAGAATAAAAC
1151 AAATTATAAACATGTGGCAGGAAGTAGGAAAAGCAATGTATGCCCCCTCCC
1201 ATCAGAGGACAAATTAGATGTTTCATCAAATATTACAGGGCTGCTATTAAC
1251 AAGAGATGGTGGTATTAATGAGAATGGGACCGAGATCTTCAGACCTGGAG
1301 GAGGAGATATGAGGGACAATTGGAGAAGTGAATTCTATAAATATAAAGTA
1351 GTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGTGCAAGAGAAGAGT
1401 GGTGCAAAGAGAAAAAAGAGCAGTGGGAATAGGAGCTGTGTTCCCTTGGGT
1451 TCTTGGGAGCAGCAGGAAGCACTATGGGCGCAGCGTCAATGACACTGACG
1501 GTACAGGCCAGACTATTATTGTCTGGTATAGTGCAACAGCAGAACAATTT
1551 GCTGAGGGCTATTGAGGCGCAACAGCGTATGTTGCAACTCACAGTCTGGG
1601 GCATCAAGCAGCTCCAGGCAAGAGTCCTGGCTGTGGAAAGATACCTAGGG
1651 GATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGAAAACCTCATTTGCTG
1701 CACTGCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTAGATAGGA
1751 TTTGGAATAACATGACCTGGATGGAGTGGGAAAGAGAAATTGACAATTAC
1801 ACAAGCGAAATATACACACTAATTGAAGAATCGCAGAACCAACAAGAAAA
1851 GAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGGAATT
1901 GGTTTGACATAACAACTGGCTGTGGTAT

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FIGURE 13B

30 VEKLWTVYY GVPVKEATT TLFASDAKA YDTEVHNVWA THACVPTDPN
 80 PQEVVLENTV EHFNMWKNNM VEQMEDIIS LWDQSLKPCV KLTPLCVTLN
 130 CKDVNATNT NDSEGTMERG EIKNCSFNIT TSIRDEVQKE YALFYKLDVV
 180 PIDNNNTSYR LISCDTSVIT QACPKISFEP IPIHYCAPAG FAILKCNDKT
 230 FNGKGPCKNV STVQCTHGIR PVVSTQLLN GSLAEDEVVI RSDNFTNNAK
 280 TIIVQLKESV EINCTRPNNN TRKSIHIGPG RAFYTTGEII GDIRQAHCNI
 330 SRAKWN~~D~~TLK QIVIKLREQF ENKTIVFNHS SGGDPEIVMH SFNCEGEFFY
 380 CNSTQLFNST WNNNTEGSNN TEGNTITLPC RIKQIINMWQ EVGKAMYAPP
 430 IRGQIRCSSN ITGLLLTRDG GINENGTEIF RPGGDMRDN WRSEFYKYKV
 480 VKIEPLGVAP TKCKRRVVQR EKRAVGIGAV FLGFLGAAGS TMGAASMTLT
 530 VQARLLLSGI VQQQNNLLRA IEAQQRMLQL TVWGIKQLQA RVLAVERYLG
 580 DQQLLGIWGC SGKLICCTAV PWNASWSNKS LDRIWNNMTW MEWEREIDNY
 630 TSEIYTLIEE SQNQQEKNEQ ELLELDK~~W~~AS LWNWFEDITNW LWY

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FIGURE 14AHIV-1_{JR-FL} Δ V1V2* SOS gp140

(a)

```
1   GTAGAAAAGTTGTGGGTCACAGTCTATTATGGGGTACCTGTGTGGAAAGA
51  AGCAACCACCACTCTATTTTGTGCATCAGATGCTAAAGCATATGATACAG
101 AGGTACATAATGTTTGGGCCACACATGCCTGTGTACCCACAGACCCCAAC
151 CCACAAGAAGTAGTATTGGAAAATGTAAACAGAACATTTTAACATGTGGAA
201 AAATAACATGGTAGAACAGATGCAGGAGGATATAATCAGTTTATGGGATC
251 AAAGCCTAAAGCCATGTGTAAAATTAACCCCACTCTGTGGTGCAGGATGT
301 GACACCTCAGTCATTACACAGGCCTGTCCAAAGATATCCTTTGAGCCAAT
351 TCCCATAACATTATTGTGCCCCGGCTGGTTTTGCGATTCTAAAGTGTAATG
401 ATAAGACGTTCAATGGAAAAGGACCATGTAAAAATGTCAGCACAGTACAA
451 TGTACACATGGAATTAGGCCAGTAGTATCAACTCAACTGCTGCTAAATGG
501 CAGTCTAGCAGAAGAAGAGGTAGTAATTAGATCTGACAATTTACGAACA
551 ATGCTAAAACCATAATAGTACAGCTGAAAGAATCTGTAGAAATTAATTGT
601 ACAAGACCCAACAACAATACAAGAAAAAGTATACATATAGGACCAGGGAG
651 AGCATTTTATACTACAGGAGAAATAATAGGAGATATAAGACAAGCACATT
701 GTAACATTAGTAGAGCAAAATGGAATGACACTTTAAAACAGATAGTTATA
751 AAATTAAGAGAACAATTTGAGAATAAAACAATAGTCTTTAATCACTCCTC
801 AGGAGGGGACCCAGAAATTGTAATGCACAGTTTTAATTGTGGAGGAGAAT
851 TTTTCTACTGTAATTCAACACAACCTGTTTAATAGTACTTGGGAATAATAAT
901 ACTGAAGGGTCAAATAACACTGAAGGAAATACTATCACACTCCCATGCAG
951 AATAAAACAAATTATAAACATGTGGCAGGAAGTAGGAAAAGCAATGTATG
1001 CCCCTCCCATCAGAGGACAAATTAGATGTTTCATCAAATATTACAGGGCTG
1051 CTATTAACAAGAGATGGTGGTATTAATGAGAATGGGACCGAGATCTTCAG
1101 ACCTGGAGGAGGAGATATGAGGGACAATTGGAGAAGTGAATTATATAAAT
1151 ATAAAGTAGTAAAAATTGAACCATTAGGAGTAGCACCCACCAAGTGCAAG
1201 AGAAGAGTGGTGCAAAGAGAAAAAAGAGCAGTGGGAATAGGAGCTGTGTT
1251 CCTTGGGTTCTTGGGAGCAGCAGGAAGCACTATGGGCGCAGCGTCAATGA
1301 CACTGACGGTACAGGCCAGACTATTATTGTCTGGTATAGTGCAACAGCAG
1351 ACAAATTTGCTGAGGGCTATTGAGGCGCAACAGCGTATGTTGCAACTCAC
1401 AGTCTGGGGCATCAAGCAGCTCCAGGCAAGAGTCCTGGCTGTGGAAAGAT
1451 ACCTAGGGGATCAACAGCTCCTGGGGATTTGGGGTTGCTCTGGAAAACCTC
1501 ATTTGCTGCACTGCTGTGCCTTGAATGCTAGTTGGAGTAATAAATCTCT
1551 GGATAGGATTTGGAATAACATGACCTGGATGGAGTGGGAAAGAGAAATTG
1601 ACAATTACACAAGCGAAATATACACCCTAATTGAAGAATCGCAGAACCAA
1651 CAAGAAAAGAATGAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTT
1701 GTGGAATTGGTTTGACATAACAACTGGCTGTGGTAT
```

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FIGURE 14B

(b)

30	VEKLWVTVYY	GVPVWKEATT	TLFCASDAKA	YDTEVHNVWA	THACVPTDPN
80	PQEVVLENT	EHFNMWKNNM	VEQMQEDIIS	LWDQSLKPCV	KLTPLCGAGC
130	DTSVITQACP	KISFEPIPIH	YCAPAGFAIL	KCNDKTFNGK	GPCKNVSTVQ
180	CTHGIRPVVS	TQLLLNGSLA	EEEVVIRSDN	FTNNAKTIIV	QLKESVEINC
230	TRPNNNTRKS	IHIGPGRIFY	TTGEIIGDIR	QAHCNISRAK	WNDTLKQIVI
280	KLREQFENKT	IVFNHSSGGD	PEIVMHSFNC	GGEFFYCNST	QLFNSTWNNN
330	TEGSNNTEGN	TITLPCRICK	IINMWQEVGK	AMYAPPPIRGQ	IRCSSNITGL
380	LLTRDGGINE	NGTEIFRPGG	GDMRDNWRSE	LYKYKVVKIE	PLGVAPTCK
430	RRVVQREKRA	VGIGAVFLGF	LGAAGSTMGA	ASMTLTVQAR	LLLSGIVQQQ
480	NNLLRAIEAQ	QRMQLTVWG	IKQLQARVLA	VERYLGDQQL	LGIWGCSGKL
530	ICCTAVPWNA	SWSNKSOLDRI	WNNMTWMEWE	REIDNYTSEI	YTLIEESQNO
580	QEKNEQEELLE	LDKWASLWNW	FDITNWLWY		

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FIGURE 15AHIV-1_{JR-FL} ΔV3 SOS gp140

(a)

```
1   GTAGAAAAGTTGTGGGTCACAGTCTATTATGGGGTACCTGTGTGGAAAGA
51  AGCAACCACCACTCTATTTTGTGCATCAGATGCTAAAGCATATGATACAG
101 AGGTACATAATGTTTGGGCCACACATGCCTGTGTACCCACAGACCCCAAC
151 CCACAAGAAGTAGTATTGGAAAATGTAACAGAACATTTTAAACATGTGGAA
201 AAATAACATGGTAGAACAGATGCAGGAGGATATAATCAGTTTATGGGATC
251 AAAGCCTAAAGCCATGTGTAAATTAACCCCACTCTGTGTTACTTTAAAT
301 TGCAAGGATGTGAATGCTACTAATACCACTAATGATAGCGAGGGAACGAT
351 GGAGAGAGGAGAAATAAAAACTGCTCTTTCAATATCACCACAAGCATAA
401 GAGATGAGGTGCAGAAAGAATATGCTCTTTTTTATAAACTTGATGTAGTA
451 CCNATAGATAATAATAATACCAGCTATAGGTTGATAAGTTGTGACACCTC
501 AGTCATTACACAGGCCTGTCCAAAGATATCCTTTGAGCCAATTCCCATAC
551 ATTATTGTGCCCCGGCTGGTTTTGCGATTCTAAAGTGTAATGATAAGACG
601 TTCAATGGAAAAGNCCATGTAAAAATGTCAGCACAGTNCAATGTACACA
651 TGGAATTAGGCCAGTAGTATCAACTCAACTGCTGCTAAATGGCAGTCTAG
701 CAGAAGAAGAGGTAGTAATTAGATCTGACAATTTACGAACAATGCTAAA
751 ACCATAATAGTACAGCTGAAAGAATCTGTAGAAATTAATTGTACAAGACC
801 CAACAACAATGGAGCCGGCGATATAAGACAAGCACATTGTAACATTAGTA
851 GAGCAAAATGGAATGACACTTTAAACAGATAGTTATAAAATTAAGAGAA
901 CAATTTGAGAATAAAACAATAGTCTTTAATCACTCCTCAGGAGGGGACCC
951 AGAAATTGTAATGCACAGTTTTAATTGTGGAGGAGAATTTTTCTACTGTA
1001 ATTC AACACA ACTGTTT AATAGT ACTTGG AATAATA ACTGAAGGGTCA
1051 AATAACACTGAAGGAAATACTATCACACTCCCATGCAGAATAAAACAAAT
1101 TATAAACATGTGGCAGGAAGTAGGAAAAGCAATGTATGCCCCTCCCATCA
1151 GAGGACAAATTAGATGTTTCATCAAATATTACAGGGCTGCTATTAACAAGA
1201 GATGGTGGTATTAATGAGAATGGGACCGAGATCTTCAGACCTGGAGGAGG
1251 AGATATGAGGGACAATTGGAGAAGTGAATTATATAAATATAAAGTAGTAA
1301 AAATTGAACCATTAGGAGTAGCACCCACCAAGTGCAAGAGAAGAGTGGTG
1351 CAAAGAGAAAAAAGAGCAGTGGGAATAGGAGCTGTGTTCCCTTGGGTTCTT
1401 GGGAGCAGCAGGAAGCACTATGGGCGCAGCGTCAATGACACTGACGGTAC
1451 AGGCCAGACTATTATTGTCTGGTATAGTGCAACAGCAGAACAATTTGCTG
1501 AGGGCTATTGAGGCGCAACAGCGTATGTTGCAACTCACAGTCTGGGGCAT
1551 CAAGCAGCTCCAGGCAAGAGTCCTGGCTGTGGAAAGATACCTAGGGGATC
1601 AACAGCTCCTGGGGATTGTTGGGGTTGCTCTGGAAAACTCATTTGCTGCACT
1651 GCTGTGCCTTGGAATGCTAGTTGGAGTAATAAATCTCTGGATAGGATTTG
1701 GAATAACATGACCTGGATGGAGTGGGAAAGAGAAATTGACAATTACACAA
1751 GCGAAATATACACCCTAATTGAAGAATCGCAGAACCAACAAGAAAAGAAT
1801 GAACAAGAATTATTGGAATTAGATAAATGGGCAAGTTTGTGGAATTGGTT
1851 TGACATAACAAAATGGCTGTGGTAT
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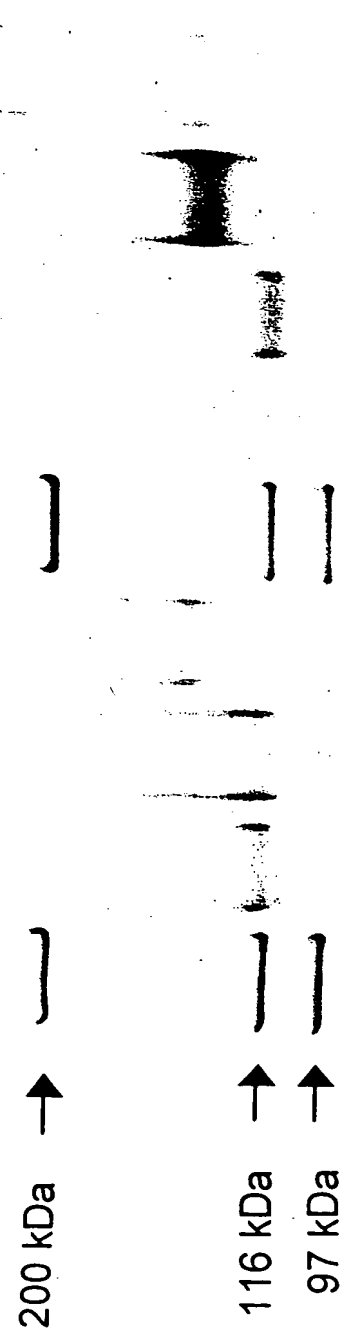
FIGURE 15B

30 VEKLWTVYY GVPVWKEATT TLFASDAKA YDTEVHNVWA THACVPTDPN
 80 PQEVVLENTV EHFNMWKNNM VEQMEDIIS LWDQSLKPCV KLTPLCVTLN
 130 CKDVNATNTT NDSEGTMERG EIKNCSEFNT TSIRDEVQKE YALFYKLDVV
 180 XIDNNNTSYR LISCDTSVIT QACPKISFEP IPIHYCAPAG FAILKCNDKT
 230 FNGKXPCKNV STXQCTHGIR PVVSTQLLN GSLAEDEVVI RSDNFTNNAK
 280 TIIVQLKESV EINCTRPNNN GAGDIRQAHN NISRAKWNNT LKQIVIKLRE
 330 QFENKTIIVEN HSSGGDPEIV MHSFNCGGEF FYCNSTQLFN STWNNNTEGS
 380 NNTEGNTITL PCRIKQIINM WQEVGKAMYA PPIRGQIRCS SNITGLLLTR
 430 DGGINENGTE IFRPGGGDMR DNWRSELYKY KVVKIEPLGV APTKCKRRVV
 480 QREKRAVGIG AVFLGFLGAA GSTMGAASMT LTVQARLLLS GIVQQQNNLL
 530 RAIEAQQRM LQLTVWGIKQL QARVLAVERY LGDQQLLGIW GCSGKLICCT
 580 AVPWNASWSN KSLDRIWNNM TWMEWEREID NYTSEIYTLI EESQNOQEK
 630 EQELLELDKW ASLWNWFEDIT KWLWY

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FIGURE 16

reduced				non-reduced				
1	2	3	4	5	6	7	8	9
MW STD	gp120	SOS gp140	gp140 UNC	MW STD	none	gp120	SOS gp140	gp140 UNC



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FIGURE 17B

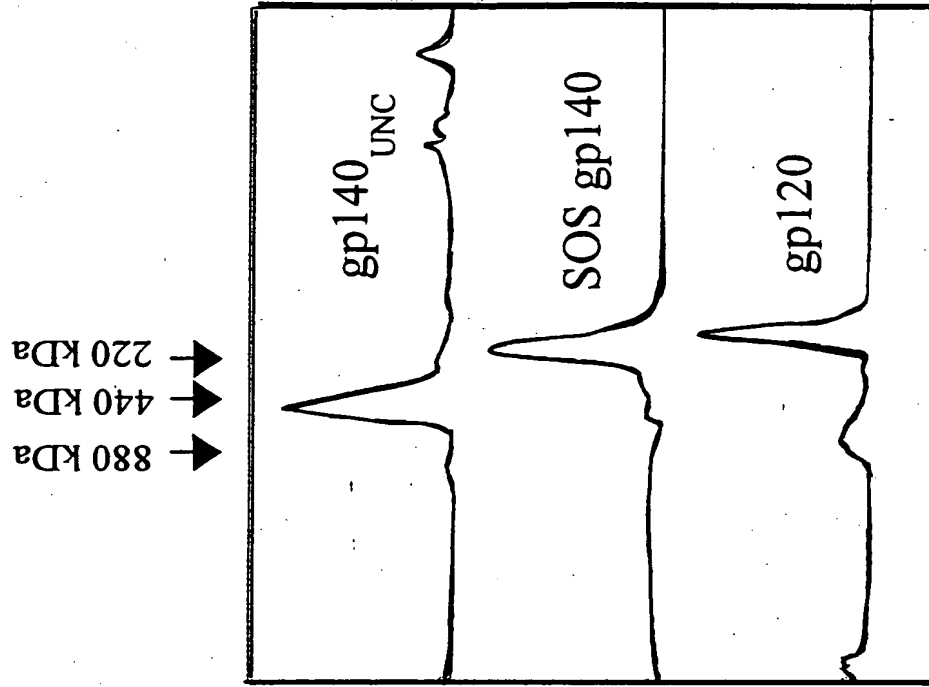
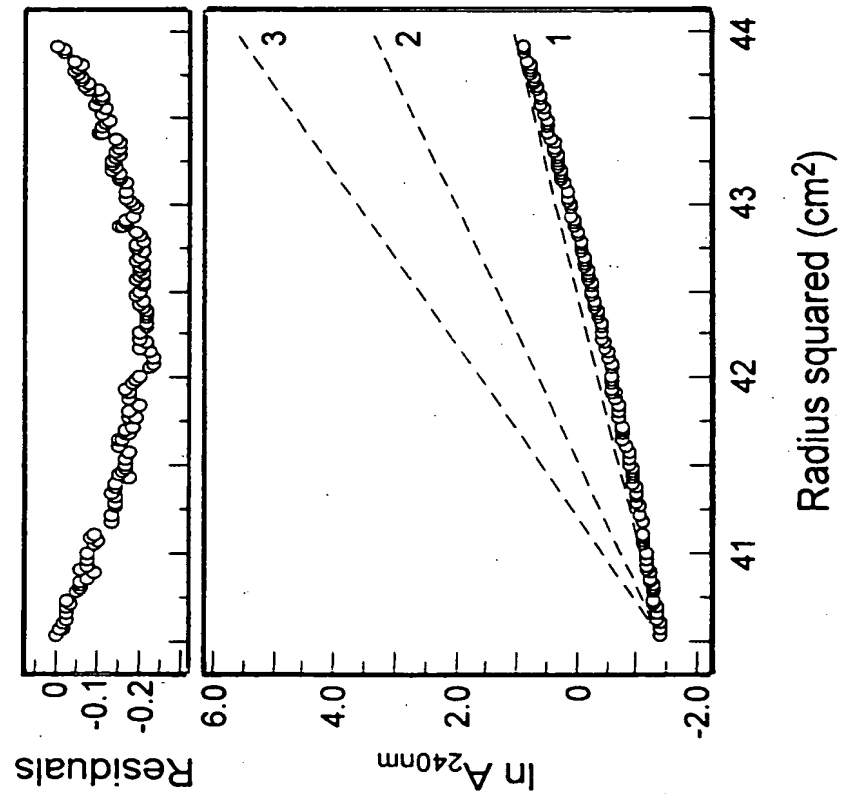
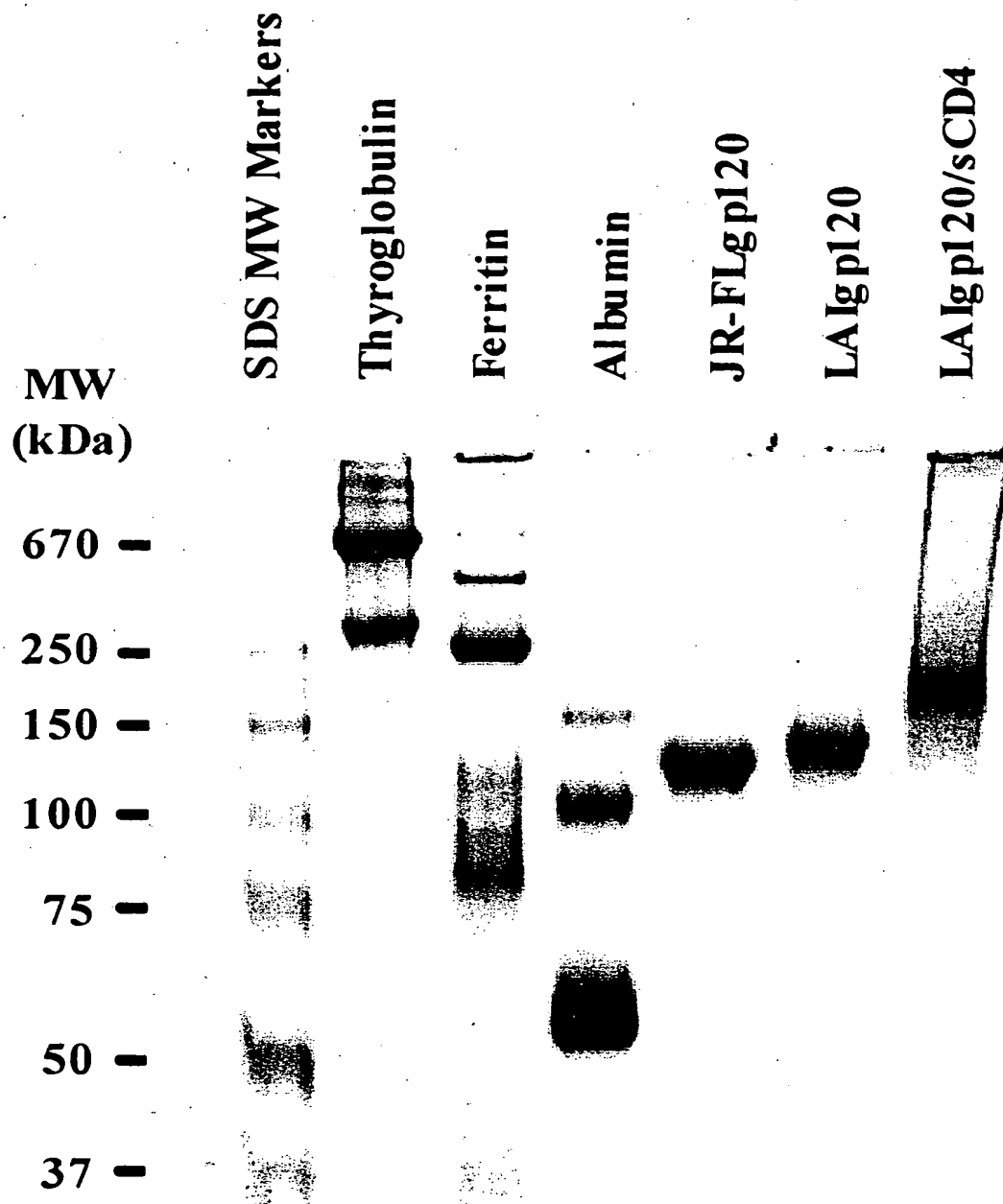


FIGURE 17A

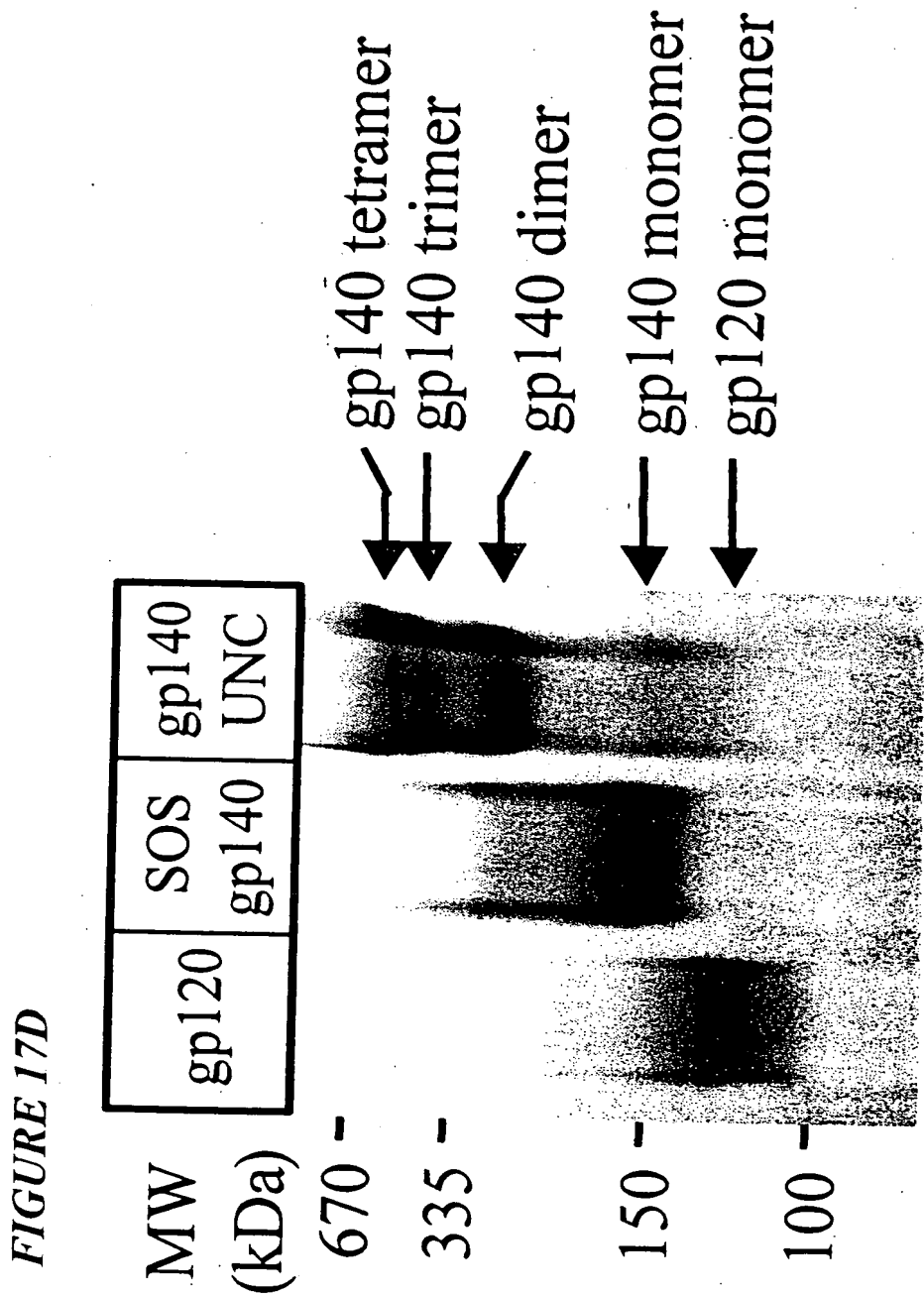


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FIGURE 17C



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FIGURE 18B

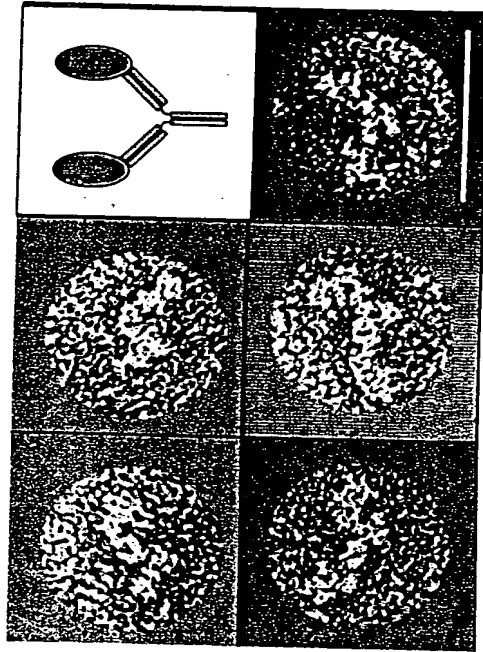
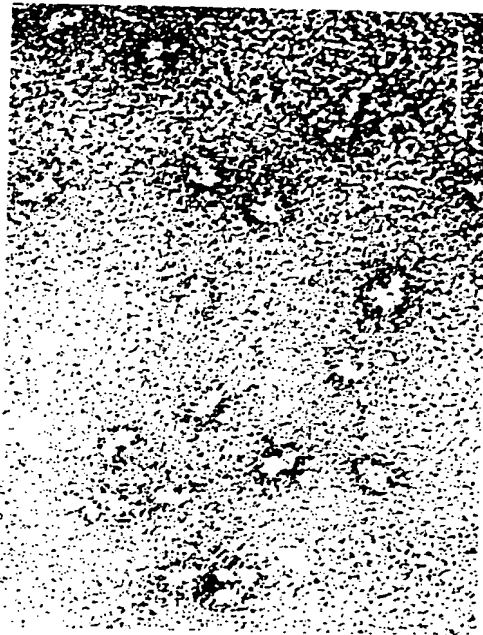


FIGURE 18A



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FIGURE 18D

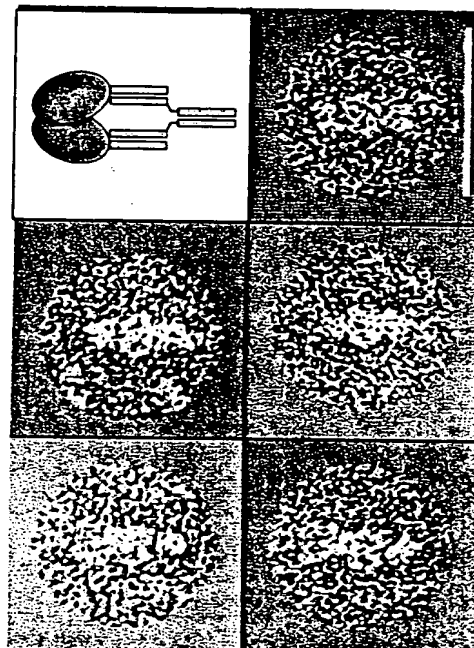
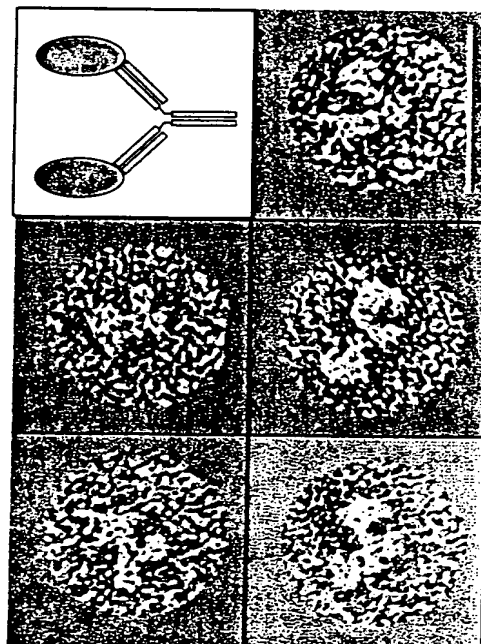


FIGURE 18C



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FIGURE 18F

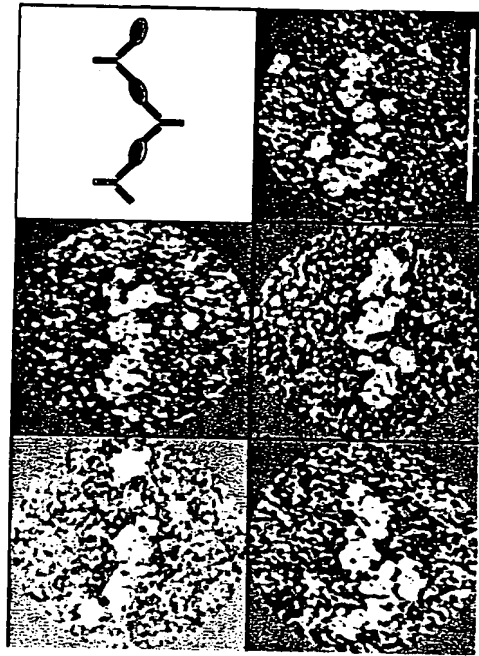
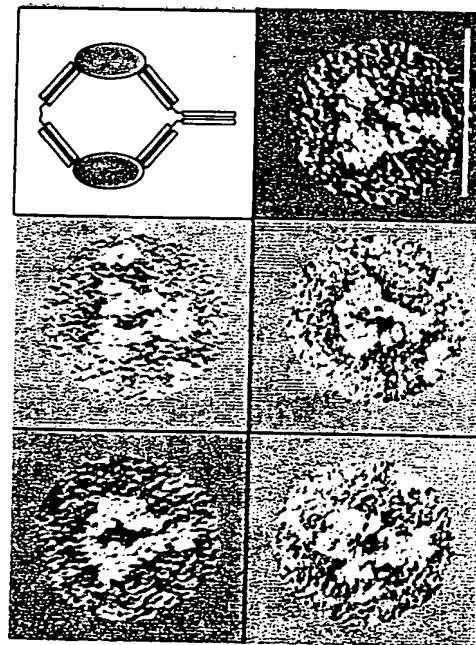


FIGURE 18E



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FIGURE 19B

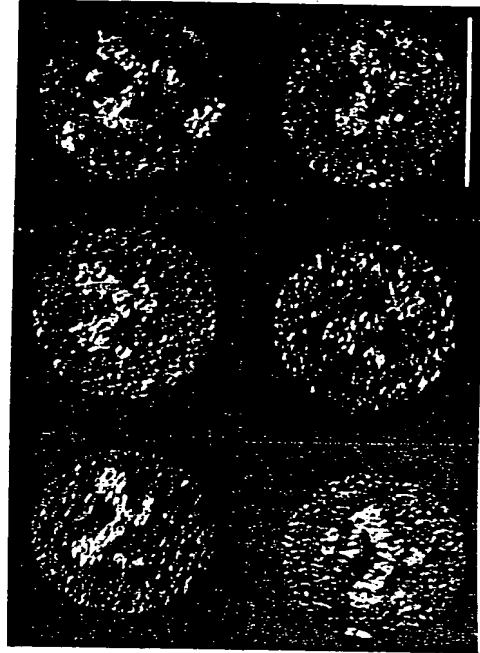
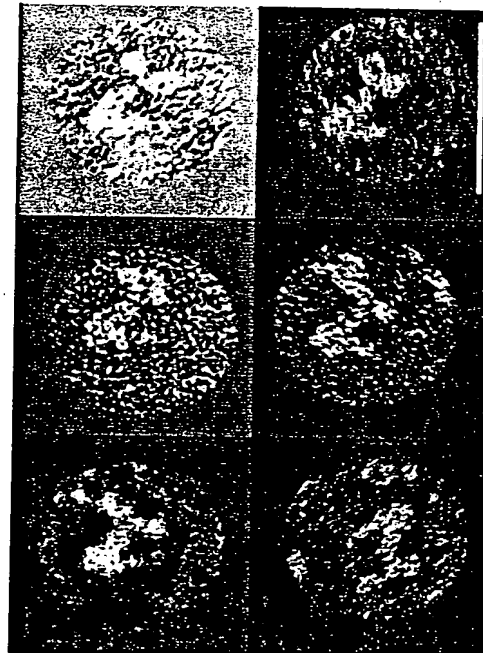


FIGURE 19A



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FIGURE 19C

FIGURE 19D

FIGURE 19E

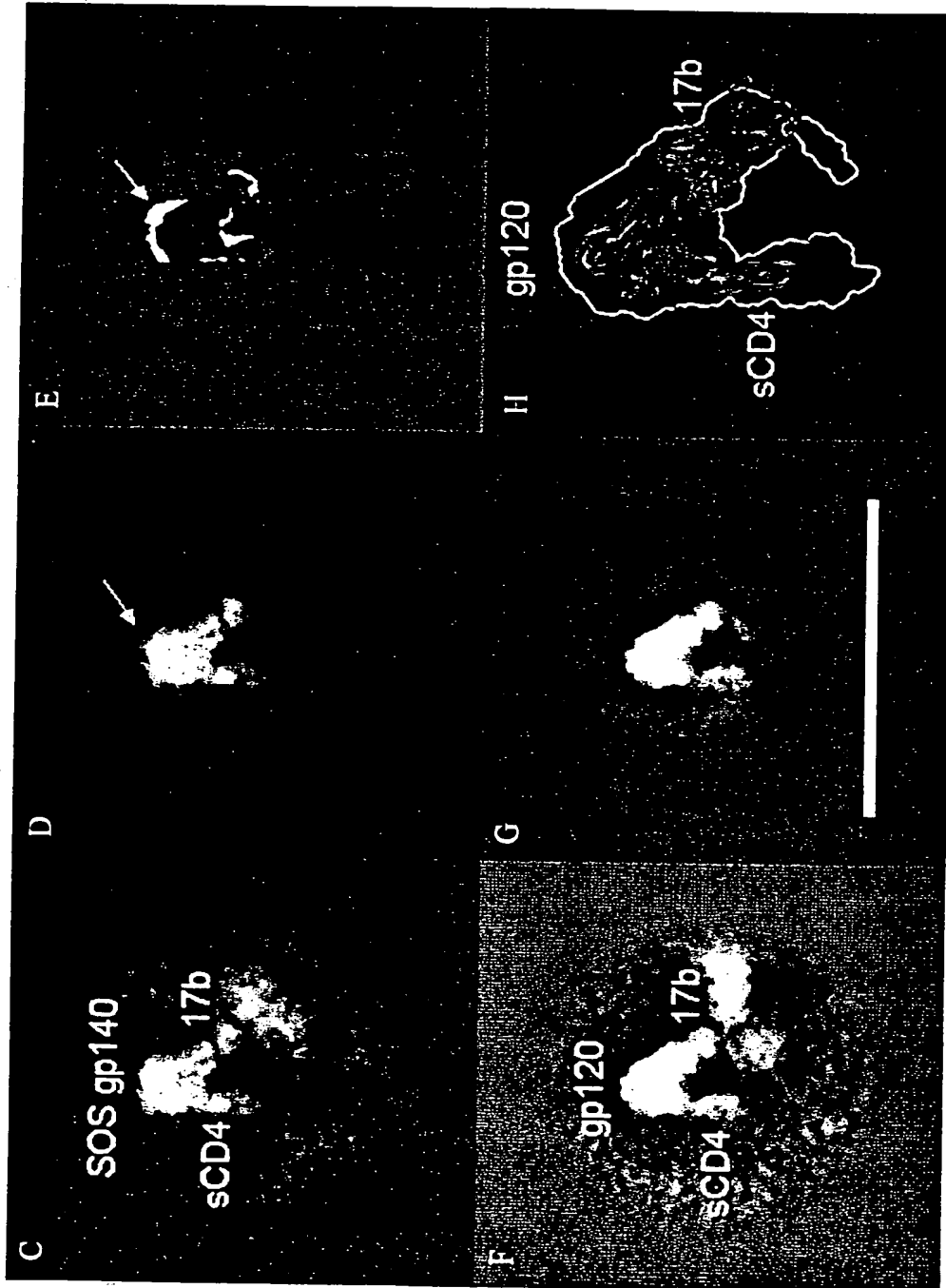
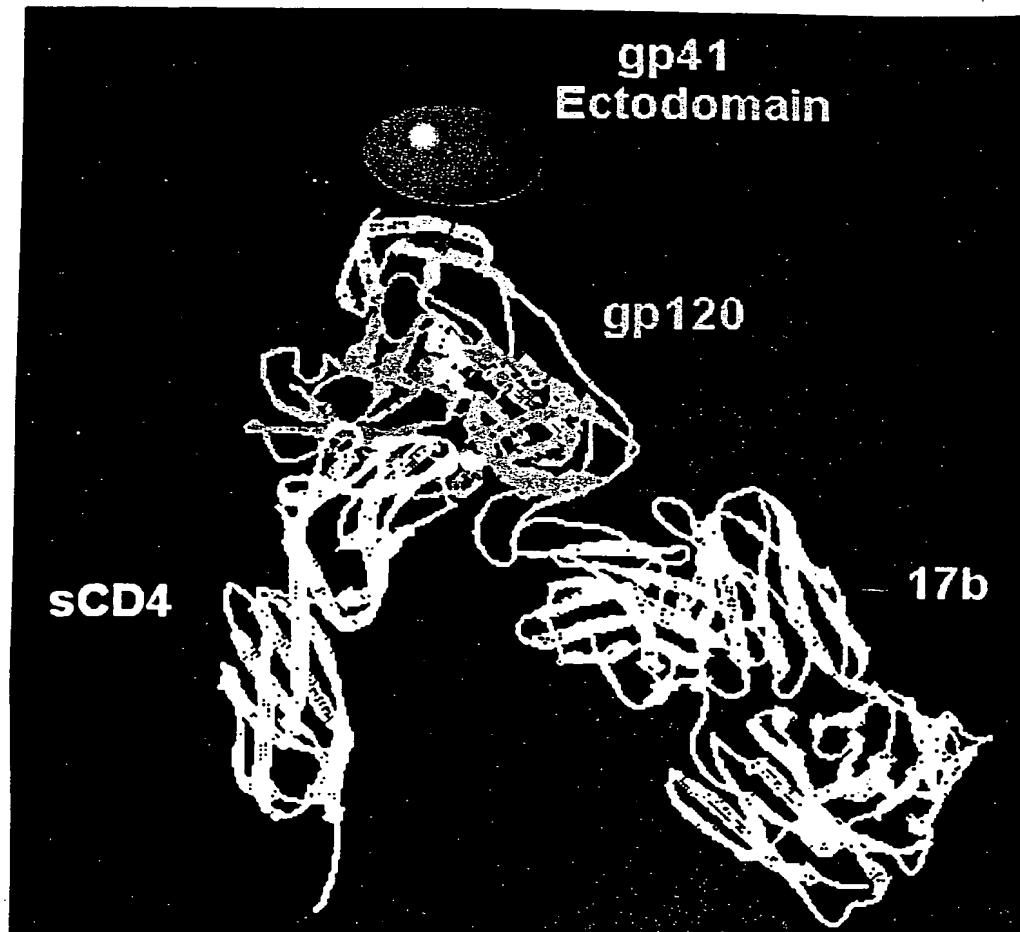


FIGURE 19H

FIGURE 19G

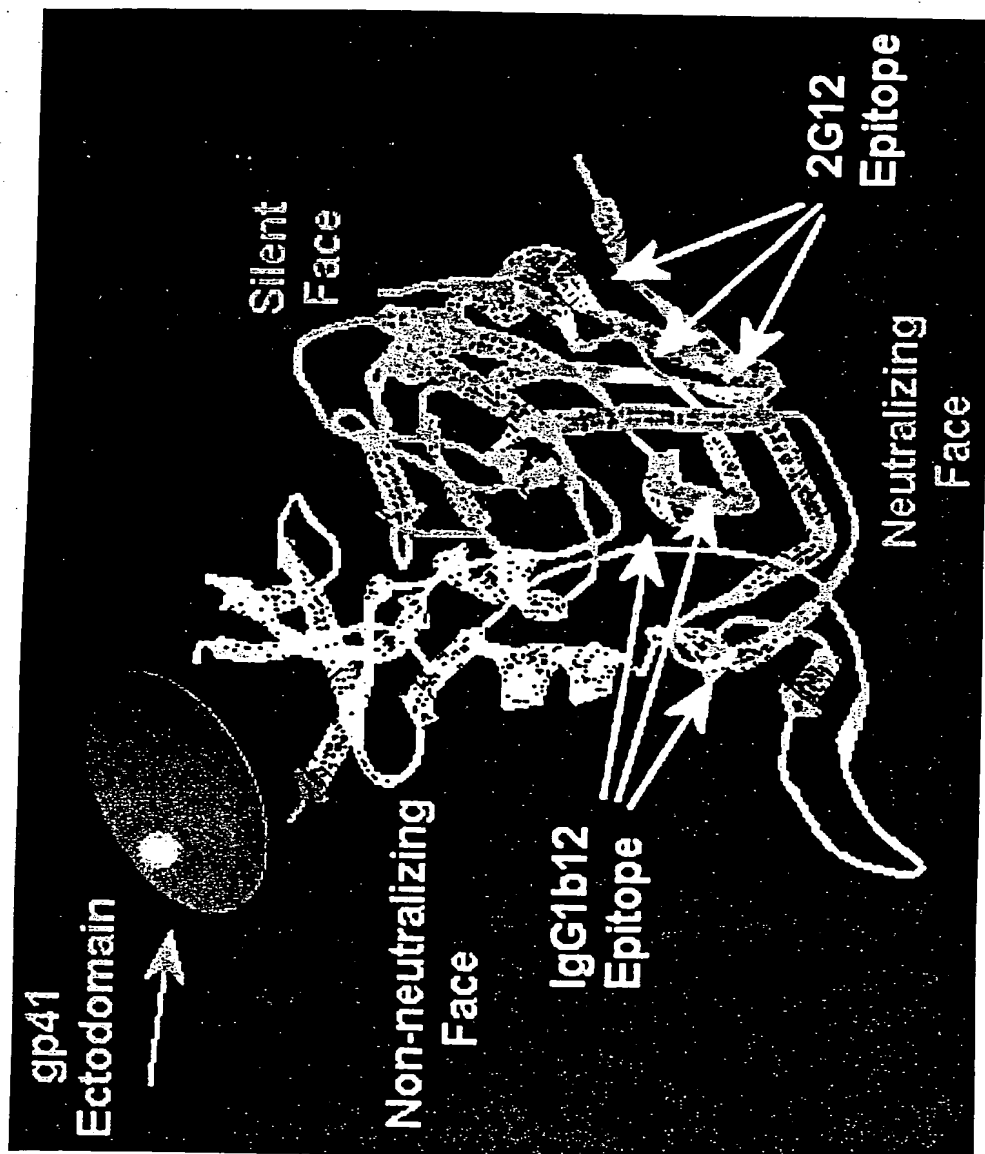
FIGURE 19F

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FIGURE 20A

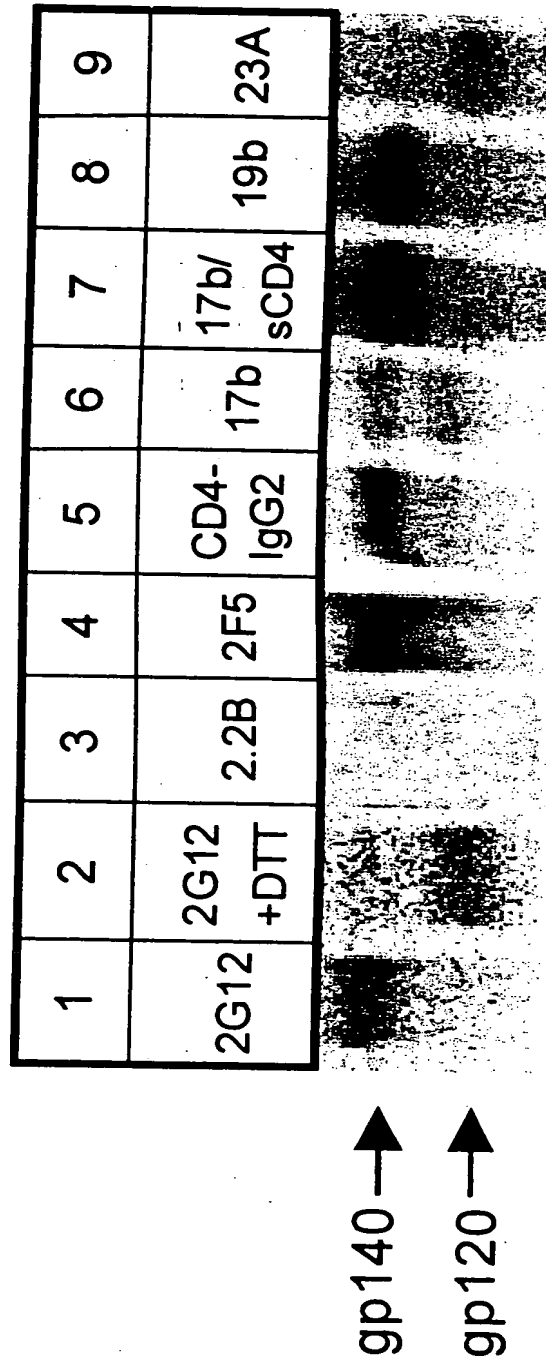
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FIGURE 20B



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FIGURE 21



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FIGURE 22B

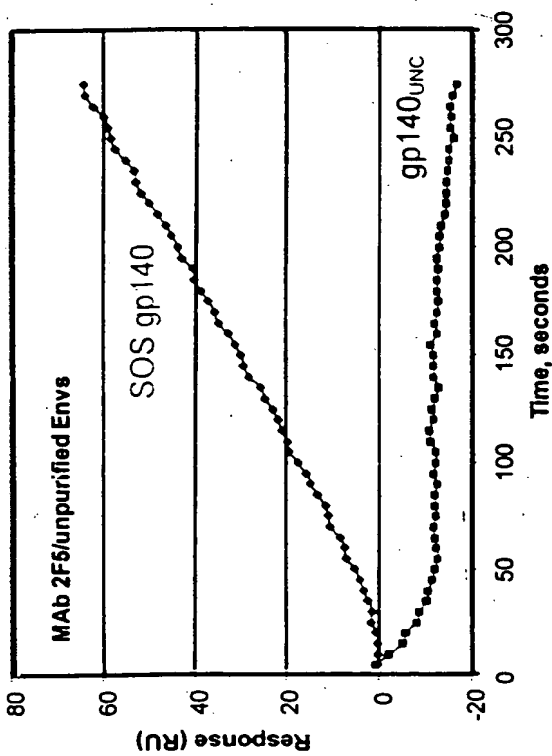


FIGURE 22D

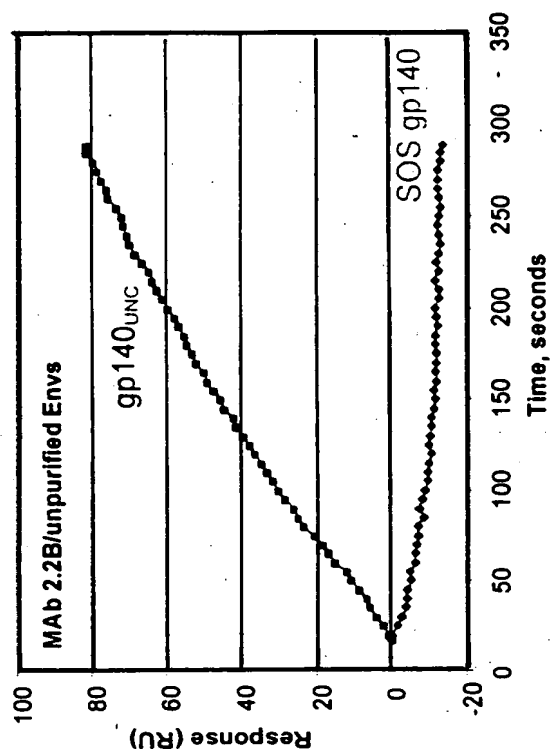


FIGURE 22A

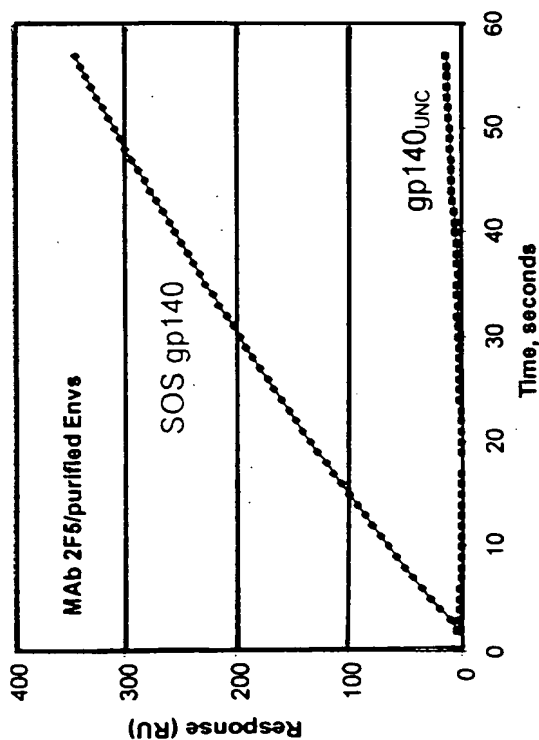
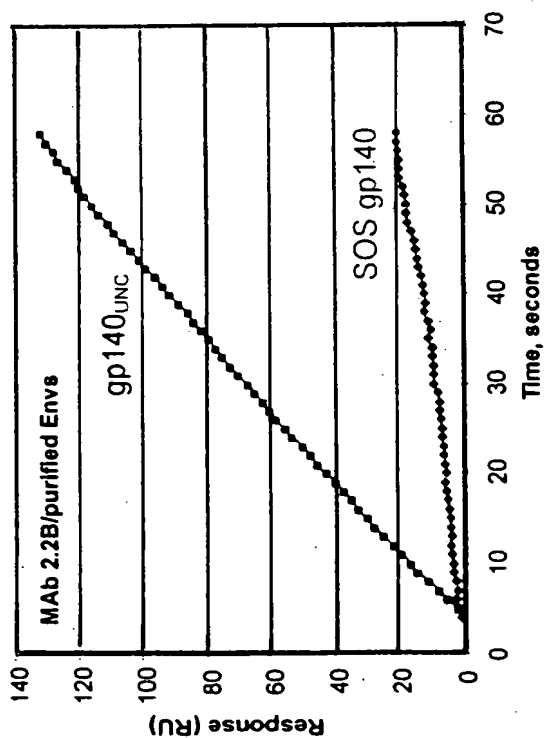


FIGURE 22C



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FIGURE 22F

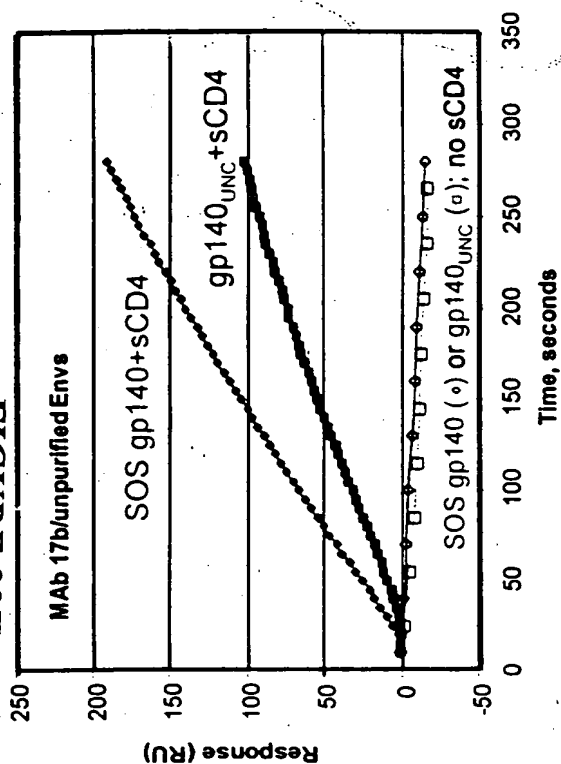


FIGURE 22H

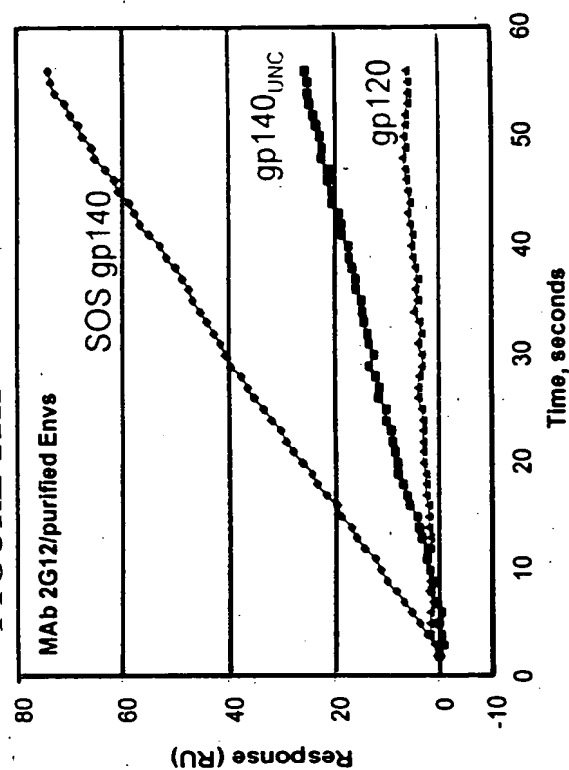


FIGURE 22E

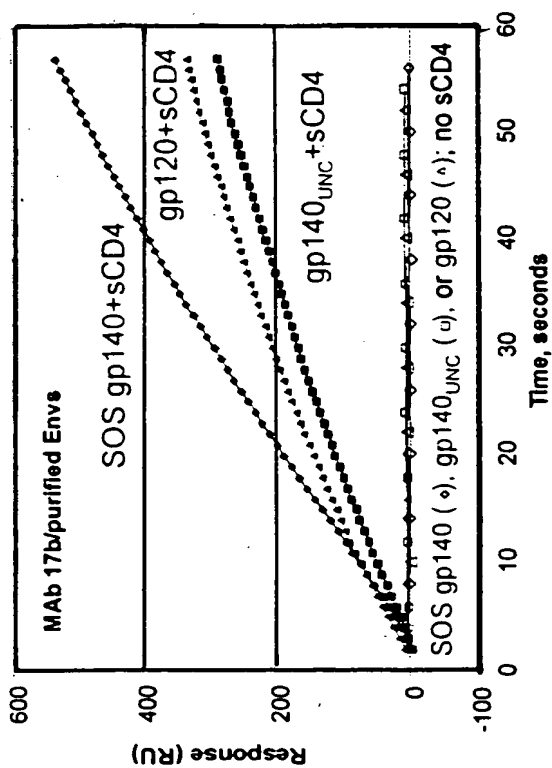
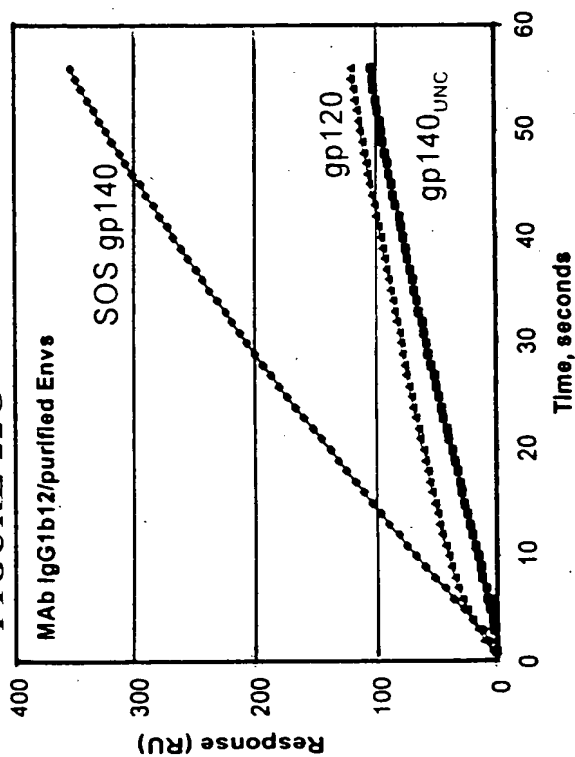
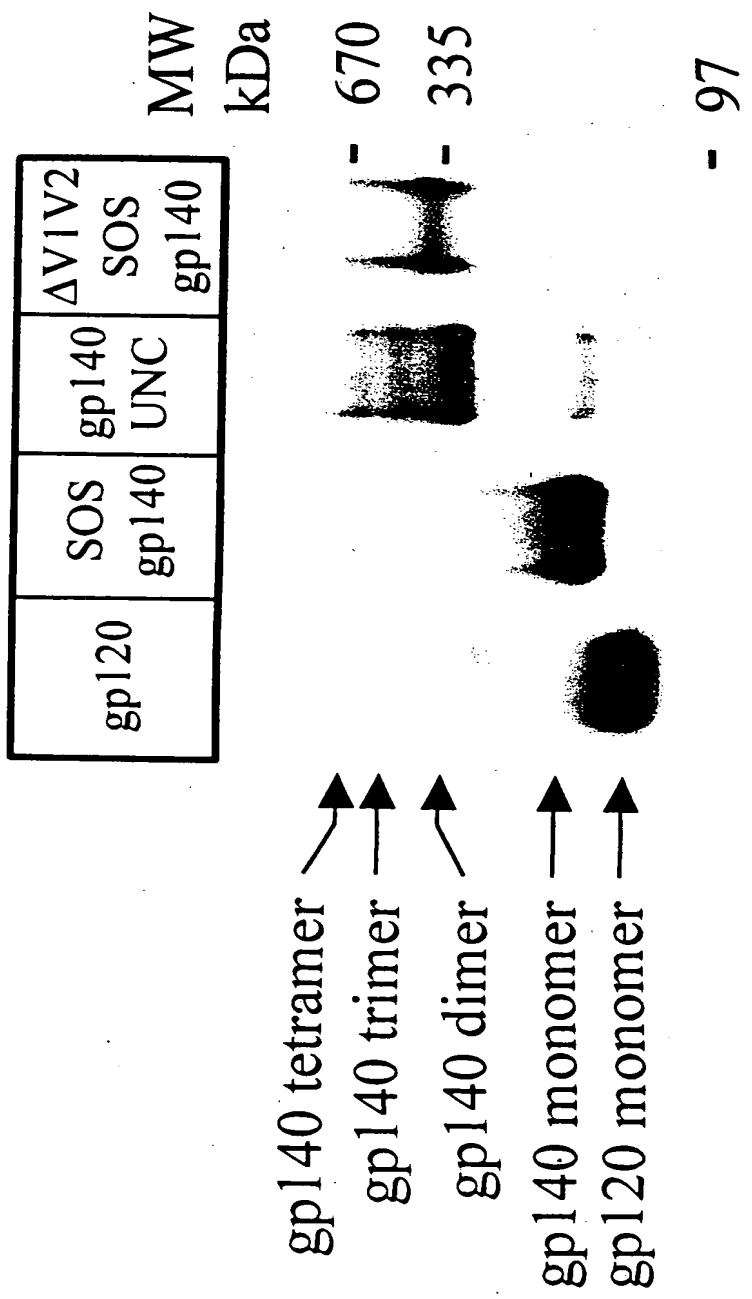


FIGURE 22G



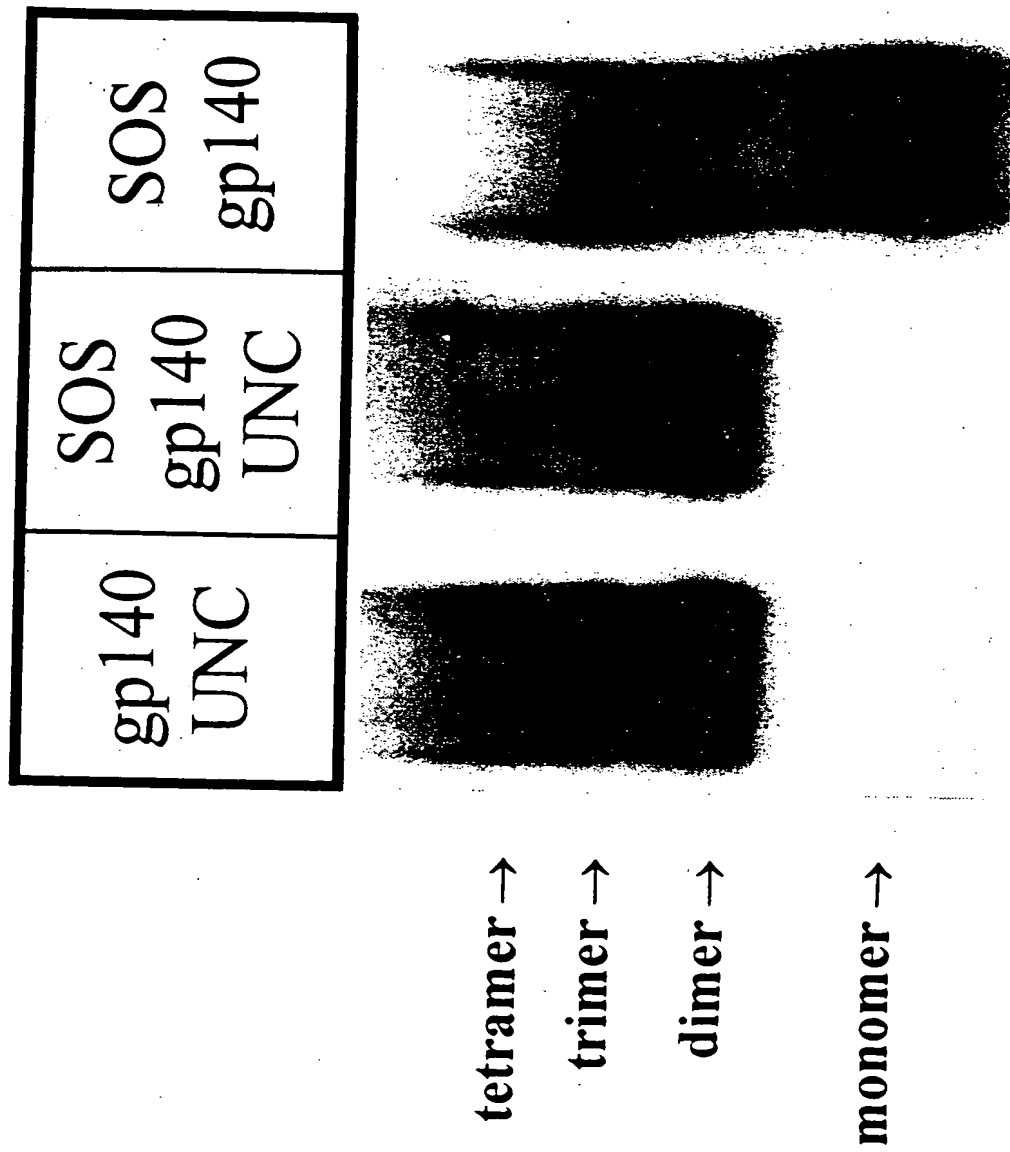
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FIGURE 23A

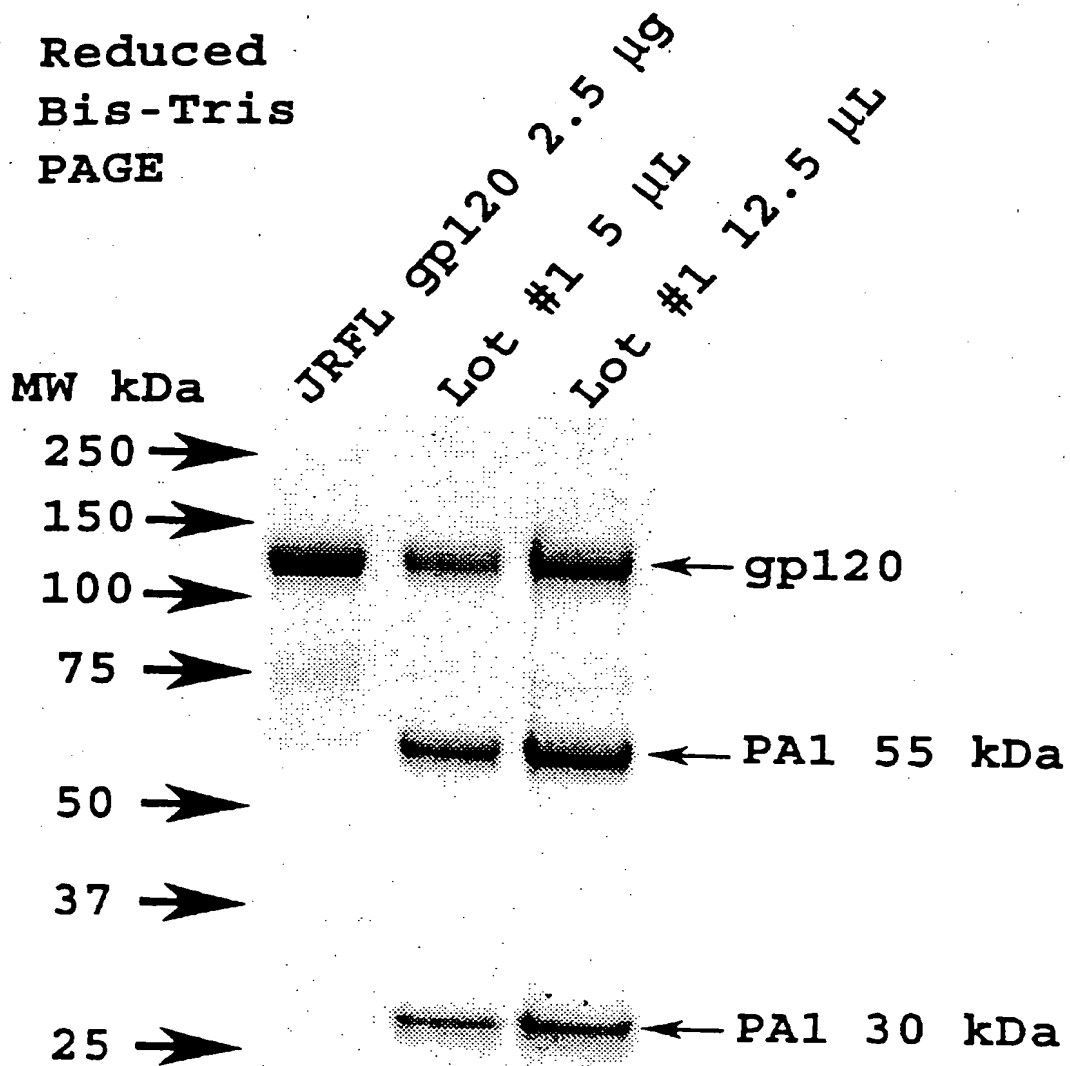


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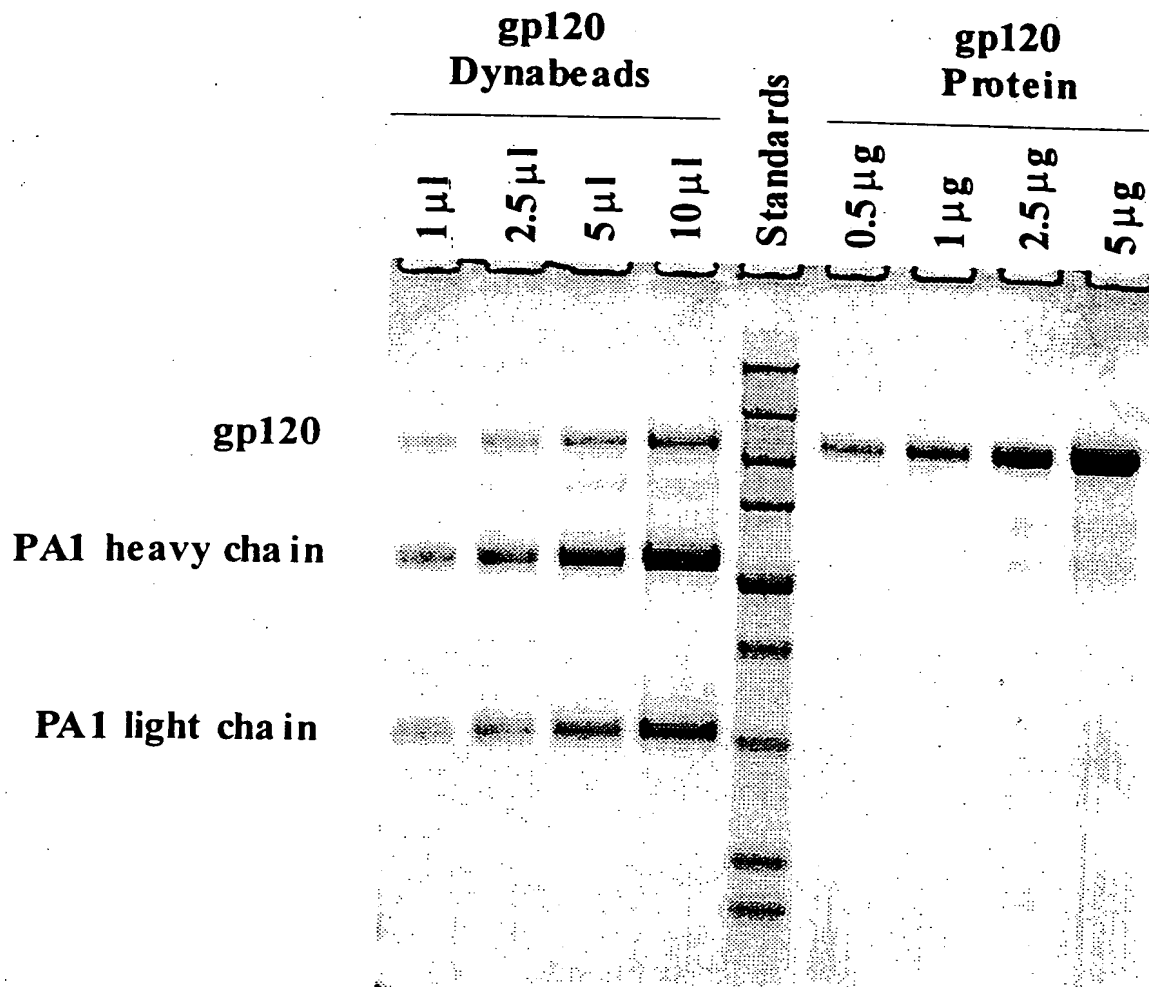
FIGURE 23B



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FIGURE 24

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FIGURE 25

Serum binding to native gp120 JRFL

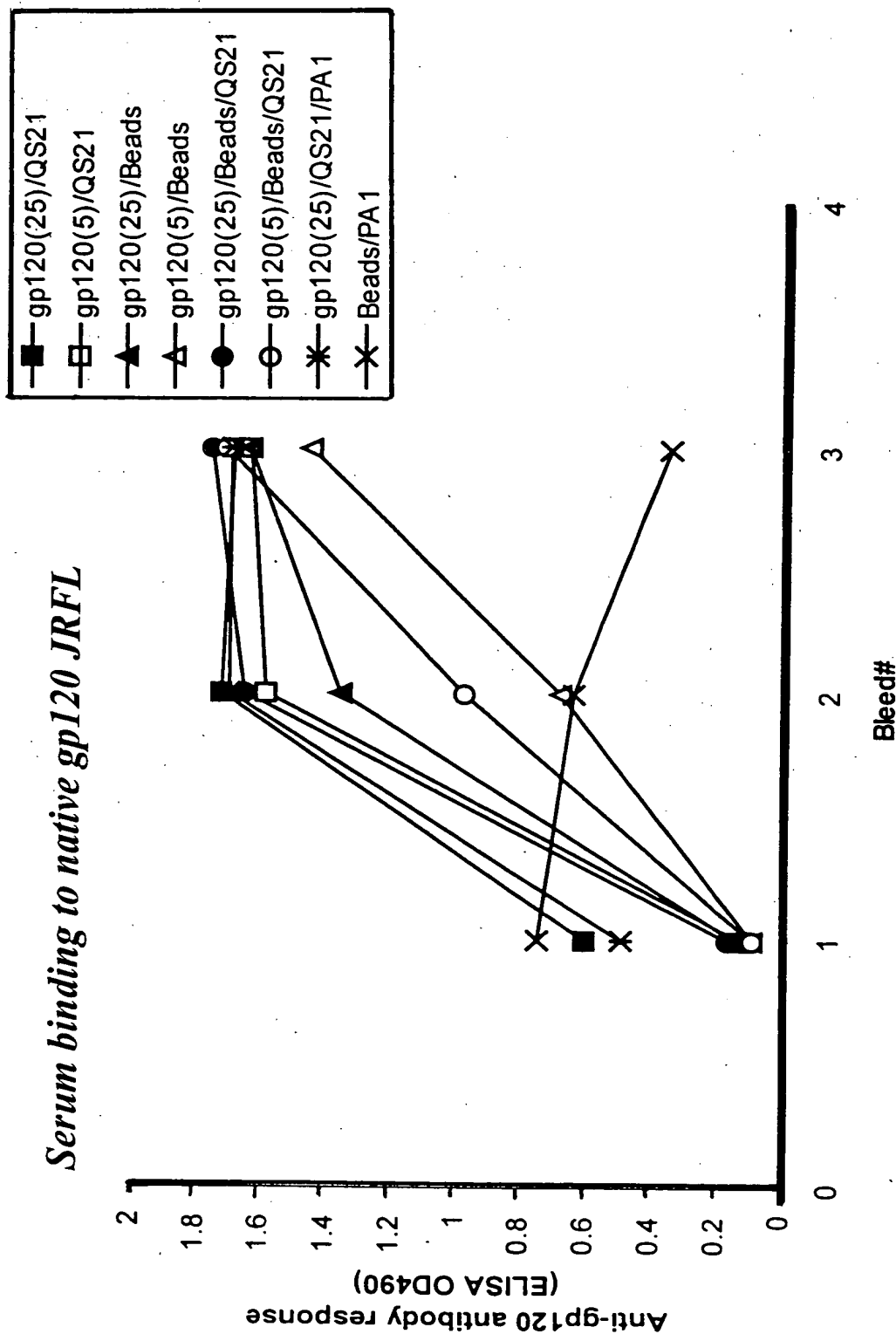


FIGURE 27

